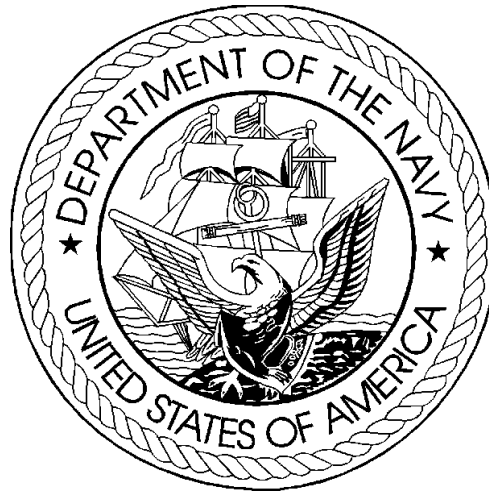


DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2001  
BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES  
FEBRUARY 2000

PROCUREMENT, MARINE CORPS  
BUDGET ACTIVITY 4

## UNCLASSIFIED

## DEPARTMENT OF THE NAVY

## FY 2001 PROCUREMENT PROGRAM

SUMMARY  
(\$ IN MILLIONS)

February 2000

## APPROPRIATION: PROCUREMENT, MARINE CORPS

ACTIVITY -----	FY 1999 -----	FY 2000 -----	FY 2001 -----
02. WEAPONS AND COMBAT VEHICLES	103.7	172.6	176.6
03. GUIDED MISSILES AND EQUIPMENT	86.8	96.4	87.6
04. COMMUNICATIONS AND ELECTRONICS EQUIPMENT	395.5	544.9	272.3
05. SUPPORT VEHICLES	166.6	282.7	487.5
06. ENGINEER AND OTHER EQUIPMENT	78.2	166.4	122.6
07. SPARES AND REPAIR PARTS	26.7	31.2	25.4
TOTAL PROCUREMENT, MARINE CORPS	857.5	1,294.2	1,171.9

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1109N PROCUREMENT, MARINE CORPS

DATE: February 2000

MILLIONS OF DOLLARS									
LINE	ITEM NOMENCLATURE	IDENT	FY 1999	FY 2000	FY 2001				S
NO		CODE	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	E
----	-----	----	-----	-----	-----	-----	-----	-----	C
BUDGET ACTIVITY 02: WEAPONS AND COMBAT VEHICLES									
-----									
TRACKED COMBAT VEHICLES									
1	AAV7A1 PIP	A	170	89.6	170	80.1	170	83.4	U
2	RAPID ACQUISITION PROGRAM	A						4.9	U
3	LAV PIP	A		1.4		1.7		1.7	U
4	IMPROVED RECOVERY VEHICLE (IRV)	A					16	42.6	U
5	MODIFICATION KITS (TRKD VEH)	A		7.7		82.8		20.8	U
6	ITEMS UNDER \$2M (TRKD VEH)	A		.1					U
ARTILLERY AND OTHER WEAPONS									
7	MOD KITS (ARTILLERY)	B		2.8		3.3		3.9	U
8	ITEMS UNDER \$2M (ALL OTHER)	B		.1					U
9	MARINE ENHANCEMENT PROGRAM	B		2.1		2.9		6.4	U
10	WEAPONS AND COMBAT VEHICLES UNDER \$5 M	A				.3		.4	U
WEAPONS									
11	155MM LIGHTWEIGHT TOWED HOWITZER	B						11.1	U
OTHER SUPPORT									
12	OPERATIONS OTHER THAN WAR	A				1.5		1.3	U
			-----		-----		-----		
TOTAL WEAPONS AND COMBAT VEHICLES				103.7		172.6		176.6	
BUDGET ACTIVITY 03: GUIDED MISSILES AND EQUIPMENT									
-----									
GUIDED MISSILES									
13	EADS MOD	A		1.0					U

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1109N PROCUREMENT, MARINE CORPS

DATE: February 2000

MILLIONS OF DOLLARS									
LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999 QUANTITY	FY 1999 COST	FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	S E C
14	JAVELIN (MYP)	A	741	(90.7)	998	(92.7)	293	(29.1)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-8.0)					U
				82.7		92.7		29.1	
15	PEDESTAL MOUNTED STINGER (PMS)	A		3.2				10.6	U
16	ITEMS UNDER \$5 MILLION	A				3.7		.9	U
17	PREDATOR (SRAW)	A					698	43.4	U
OTHER SUPPORT									
18	MODIFICATION KITS	A						3.6	U
TOTAL GUIDED MISSILES AND EQUIPMENT				86.8		96.4		87.6	
BUDGET ACTIVITY 04: COMMUNICATIONS AND ELECTRONICS EQUIPMENT									
REPAIR AND TEST EQUIPMENT									
19	AUTO TEST EQUIP SYS	B		29.2		28.9		4.7	U
20	GENERAL PURPOSE ELECTRONIC TEST EQUIP.	A		9.1		10.6		8.2	U
INTELL/COMM EQUIPMENT (NON-TEL)									
21	AN/TPQ-36 FIRE FINDER RADAR UPGRADE	A		.6					U
22	INTELLIGENCE SUPPORT EQUIPMENT	B		10.1		19.0		12.0	U
23	MOD KITS (INTEL)	A		5.2		18.4		5.0	U
24	ITEMS UNDER \$5 MILLION (INTELL)	A				2.1		.4	U
25	ITEMS LESS THAN \$2M (INTELL)	A		3.1					U
REPAIR AND TEST EQUIPMENT (NON-TEL)									
26	GENERAL PURPOSE MECHANICAL TMDE	A		4.5		4.7		4.7	U
OTHER COMM/ELEC EQUIPMENT (NON-TEL)									
27	NIGHT VISION EQUIPMENT	B		23.6		17.4		14.4	U

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1109N PROCUREMENT, MARINE CORPS

DATE: February 2000

MILLIONS OF DOLLARS									
LINE	ITEM NOMENCLATURE	IDENT	FY 1999	FY 2000	FY 2001				S
NO		CODE	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	E
----	-----	----	-----	-----	-----	-----	-----	-----	C
OTHER SUPPORT (NON-TEL)									
28	ITEMS UNDER \$5 MILLION (COMM & ELEC)	A			11.1		8.3		U
29	COMMON COMPUTER RESOURCES	A			104.1		80.7		U
30	COMMAND POST SYSTEMS	A		24.1	4.4		9.5		U
31	MANEUVER C2 SYSTEMS	B		9.5	6.8				U
32	RADIO SYSTEMS	B		45.9	96.2		3.1		U
33	COMM SWITCHING & CONTROL SYSTEMS	B		62.0	62.0		3.2		U
34	COMM & ELEC INFRASTRUCTURE SUPPORT	A		114.2	123.5		80.6		U
35	MOD KITS MAGTF C41	B		33.1	18.5		7.5		U
36	ITEMS < \$2M MAGTF C41	A		8.6					U
37	ITEMS < \$2M (OTHER)	A		4.8					U
38	AIR OPERATIONS C2 SYSTEMS	A		7.8	4.1		3.2		U
39	INTELLIGENCE C2 SYSTEMS	A			8.2		14.7		U
40	FIRE SUPPORT SYSTEM	A			5.0		12.3		U
TOTAL COMMUNICATIONS AND ELECTRONICS EQUIPMENT				395.5	544.9		272.3		
BUDGET ACTIVITY 05: SUPPORT VEHICLES									
-----									
ADMINISTRATIVE VEHICLES									
41	COMMERCIAL PASSENGER VEHICLES	A	31	.9	43	1.3	33	1.4	U
42	COMMERCIAL CARGO VEHICLES	A		17.8		8.8		23.4	U
TACTICAL VEHICLES									
43	5/4T TRUCK HMMWV (MYP)	A	15	2.2	1918	124.4	1859	124.4	U
44	MEDIUM TACTICAL VEHICLE REPLACEMENT (M	B	240	69.5	788	138.3	2027	325.6	U

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1109N PROCUREMENT, MARINE CORPS

DATE: February 2000

MILLIONS OF DOLLARS										S E C
LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999 QUANTITY	FY 1999 COST	FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST		
45	LT TACTICAL VEHICLE REPLACEMENT(LTVR)	A	1122	68.8					U	
46	LOGISTICS VEHICLE SYSTEM REP	A		3.8					U	
OTHER SUPPORT										
47	ITEMS LESS THAN \$2 MIL	A		3.6					U	
48	ITEMS LESS THAN \$5 MILLION	A				9.9		12.7	U	
TOTAL SUPPORT VEHICLES				166.6		282.7		487.5		
BUDGET ACTIVITY 06: ENGINEER AND OTHER EQUIPMENT										
ENGINEER AND OTHER EQUIPMENT										
49	ENVIRONMENTAL CONTROL EQUIP ASSORT	A		3.0		3.6		3.8	U	
50	BULK LIQUID EQUIPMENT	A				3.2		2.7	U	
51	TACTICAL FUEL SYSTEMS	A				9.7		7.7	U	
52	DEMOLITION SUPPORT SYSTEMS	A		2.9		3.4		.7	U	
53	POWER EQUIPMENT ASSORTED	A		9.0		10.8		9.3	U	
54	SHOP EQ CONTACT MAINTENANCE (SECM)	A		8.4		3.3			U	
55	CANCELLED ACCOUNT ADJUSTMENT (M)	A		8.2					U	
MATERIALS HANDLING EQUIPMENT										
56	COMMAND SUPPORT EQUIPMENT	A		4.9		2.0			U	
57	AMPHIBIOUS RAID EQUIPMENT	A		2.8					U	
58	PHYSICAL SECURITY EQUIPMENT	A		1.9		5.6		5.3	U	
59	GARRISON MOBILE ENGR EQUIP	A		5.5		6.9		5.7	U	
60	WAREHOUSE MODERNIZATION	A		1.5					U	
61	MATERIAL HANDLING EQUIP	A		11.9		66.0		36.3	U	

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1109N PROCUREMENT, MARINE CORPS

DATE: February 2000

MILLIONS OF DOLLARS										S
LINE	ITEM NOMENCLATURE	IDENT	FY 1999	FY 2000	FY 2001					E
NO		CODE	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST		C
----	-----	----	-----	-----	-----	-----	-----	-----	-----	-
62	FIRST DESTINATION TRANSPORTATION	A		3.1		4.1		5.8		U
	GENERAL PROPERTY									
63	FIELD MEDICAL EQUIPMENT	A		2.2		7.9		1.9		U
64	TRAINING DEVICES	B		3.3		13.8		30.8		U
65	CONTAINER FAMILY	A		6.4		5.7		6.9		U
	OTHER SUPPORT									
66	MODIFICATION KITS	A		1.3		1.0				U
67	ITEMS LESS THAN \$2 MIL	A		2.0						U
68	ITEMS LESS THAN \$5 MILLION	A				12.0		5.6		U
69	CANCELLED ACCOUNT ADJUSTMENT (M)	A				7.5				U
	TOTAL ENGINEER AND OTHER EQUIPMENT			78.2		166.4		122.6		
	BUDGET ACTIVITY 07: SPARES AND REPAIR PARTS									
	-----									
	SPARES AND REPAIR PARTS									
70	SPARES AND REPAIR PARTS	A		26.7		31.2		25.4		U
	TOTAL SPARES AND REPAIR PARTS			26.7		31.2		25.4		
	TOTAL PROCUREMENT, MARINE CORPS			857.5		1,294.2		1,171.9		

Procurement, Marine Corps  
Program and Financing (in Thousands of dollars)

		Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
Identification code	17-1109-0-1-051	1999 actual	2000 est.	2001 est.	1999 actual	2000 est.	2001 est.
Program by activities:							
Direct program:							
00.0201	Weapons and combat vehicles	103,115*	172,571	176,620	104,236	150,001	188,304
00.0301	Guided missiles and equipment	86,335*	96,442	87,571	85,911	79,092	81,754
00.0401	Communications and electronics equipment	405,790*	544,905	272,326	367,641	534,854	313,946
00.0501	Support vehicles	156,134*	282,685	487,479	161,259	234,044	419,714
00.0601	Engineer and other equipment	69,759*	166,424	122,557	130,465	136,231	114,010
00.0701	Spares and repair parts	36,337*	31,192	25,382	24,598	37,768	27,823
00.9101	Total direct program	857,470	1,294,219	1,171,935	874,110	1,171,990	1,145,551
01.0101	Reimbursable program	249#	9,400	9,400	250	9,400	9,400
10.0001	Total	857,719	1,303,619	1,181,335	874,360	1,181,390	1,154,951
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)	-249	-9,400	-9,400	10,004	-9,400	-9,400
17.0001	Recovery of prior year obligations				-21,999		
Unobligated balance available, start of year:							
21.4002	For completion of prior year budget plans				-164,794	-155,280	-277,509
21.4003	Available to finance new budget plans		-5,000			-5,000	
21.4009	Reprogramming from/to prior year budget plan	-4,619					
Unobligated balance available, end of year:							
24.4002	For completion of prior year budget plans				155,280	277,509	303,893
24.4003	Available to finance subsequent year budget	5,000			5,000		
25.0001	Unobligated balance expiring	4,619			4,619		
39.0001	Budget authority	862,470	1,289,219	1,171,935	862,470	1,289,219	1,171,935
Budget authority:							
40.0001	Appropriation	872,216	1,300,920	1,171,935	872,216	1,300,920	1,171,935
40.3601	Unobligated Balance Rescinded		-5,000			-5,000	
40.7601	Reduction pursuant to P.L. 106-113(-), Titl		-6,701			-6,701	
40.7701	Reduction pursuant to P.L. 105-262 (-), 813	-15,700			-15,700		
41.0001	Transferred to other accounts (-)	-9,977			-9,977		
42.0001	Transferred from other accounts	15,931			15,931		
43.0001	Appropriation (adjusted)	862,470	1,289,219	1,171,935	862,470	1,289,219	1,171,935

Notes: (\*) For FY 1999, differences between authorized amounts cited for budget activities in the budget and the Program and Financing exhibit are the result of minor reprogrammings not reflected in the official 30 September 1999 accounting reports.

(#) For FY 1999, differences between authorized reimbursable amounts in the budget and this Program and Financing exhibit are the result of updates which were not reflected in the official 30 September 1999 accounting reports.



Procurement, Marine Corps  
Program and Financing (in Thousands of dollars)

		Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
Identification code	17-1109-0-1-051	1999 actual	2000 est.	2001 est.	1999 actual	2000 est.	2001 est.
Relation of obligations to outlays:							
71.0001	Obligations incurred				884,364	1,171,990	1,145,551
72.4001	Obligated balance, start of year				583,057	852,557	1,207,987
74.4001	Obligated balance, end of year				-852,557	-1,207,987	-1,336,913
77.0001	Adjustments in expired accounts (net)				-420		
78.0001	Adjustments in unexpired accounts				-21,999		
90.0001	Outlays (net)				592,445	816,560	1,016,625

Procurement, Marine Corps  
Object Classification (in Thousands of dollars)

Identification code	17-1109-0-1-051	1999 actual	2000 est.	2001 est.
-----				
	Direct obligations:			
125.101	Advisory and assistance services	6,049	8,297	7,549
	Purchases goods/services from Government accounts			
125.303	Purchases from revolving funds	46,816	75,733	74,456
126.001	Supplies and materials	23,521		
131.001	Equipment	797,724	1,087,960	1,063,546
		-----	-----	-----
199.001	Total Direct obligations	874,110	1,171,990	1,145,551
	Reimbursable obligations:			
231.001	Equipment	250	9,400	9,400
		-----	-----	-----
299.001	Total Reimbursable obligations	250	9,400	9,400
		-----	-----	-----
999.901	Total obligations	874,360	1,181,390	1,154,951

Comparison of FY 2000 Program Requirements as Reflected  
in the FY 2000 Budget with the FY 2000 Requirements  
as shown in the FY 2001 Budget

DATE: February 2000

Summary of Requirements (In Millions of Dollars)

NOMENCLATURE	Total Program Requirements per FY 2000 Budget	Total Program Requirements per FY 2001 Budget	Increase or Decrease (-)
BA 2: WEAPONS & TRACKED COMBAT VEHICLES	113.3	172.6	59.3
BA 3: GUIDED MISSILES & EQUIPMENT	96.5	96.4	-0.1
BA 4: COMMUNICATIONS & ELECTRONICS EQUIPMENT	470.1	544.9	74.8
BA 5: SUPPORT VEHICLES	282.8	282.7	-0.1
BA 6: ENGINEER & OTHER EQUIPMENT	137.0	166.4	29.4
BA 7: SPARES & REPAIR PARTS	37.5	31.2	-6.3
Subtotal Direct Program	1137.2	1294.2	157.0
Reimbursable	9.4	9.4	0.0
Total Fiscal Year	1146.6	1303.6	157.0

UNCLASSIFIED

Comparison of FY 2000 Program Requirements as Reflected  
in the FY 2000 Budget with the FY 2000 Requirements  
as shown in the FY 2001 Budget

Summary of Requirements (In Millions of Dollars)

BA 2: Weapons and Tracked Combat Vehicles +\$59.3

Changes reflect Congressional add (\$60.5) for upgrade of M88A1 Recovery Vehicles to the M88A2 Improved Recovery Vehicle variant and Congressional across-the-board reduction (-\$1.2).

BA 3: Guided Missiles and Equipment -\$0.1

Change reflects Congressional across-the-board reduction (-\$0.1).

BA 4: Communications and Electronics Equipment +\$74.8

Changes reflect Congressional adds for K-Band Test Obscuration Pairing System (\$2.8), Night Vision Equipment (\$8.5), Next Generation EPLRS (\$10.9), upgrade and replacement of key information transfer components at located inside buildings on Marine Corps bases and stations (\$45.0), modification of the Ground Based Common Sensor for integration into the Mobile Electronic Warfare Support System (MEWSS) Light Armored Vehicle (\$3.0), Shortstop Electronic Protection System (\$5.0), and below threshold reprogrammings (\$3.4). Reductions reflect the Congressional across-the-board reduction (-\$3.4).

BA 5: Support Vehicles -\$0.1

Change reflects Congressional across-the-board reduction (-\$0.1).

BA 6: Engineer and Other Equipment +\$29.4

Changes reflect Congressional adds for Ultimate Building Machine (\$2.0), remanufacture of D-7G Bulldozers (\$16.5), Chemical Biological Incident Response Team (\$3.0), Small Unit Biological Detector (\$2.5), Laser Leveling Equipment (\$1.0), Distance Learning (\$3.0), and below threshold reprogrammings (\$2.4). Reductions reflect the Congressional across-the-board reduction (-\$1.2).

BA 7: Spares and Repair Parts -\$6.3

Changes reflect below threshold reprogrammings (-\$6.0) and Congressional across-the-board reduction (-\$0.3).

Comparison of FY 2000 Program Requirements as Reflected  
in the FY 2000 Budget with the FY 2000 Requirements  
as shown in the FY 2001 Budget

Summary of Requirements (In Millions of Dollars)

Description	Financing per FY 2000 Budget	Financing per FY 2001 Budget	Increase or Decrease (-)
Program Requirements (Total)	1146.6	1303.6	157.0
(Total Direct)	(1137.2)	(1294.2)	(157.0)
(Total Reimbursable)	(9.4)	(9.4)	0.0
Less:			
Anticipated Reimbursements	9.4	9.4	0.0

Explanation of Changes in Financing:

The \$157.0 million increase in program requirements is the result of Congressional adds (\$163.7), below threshold reprogrammings (net zero), and Congressional across-the-board adjustments (-\$6.7).

Comparison of FY 1999 Program Requirements as Reflected  
in the FY 2000 Budget with the FY 1999 Requirements  
as shown in the FY 2001 Budget

DATE: February 2000

Summary of Requirements (In Millions of Dollars)

NOMENCLATURE	Total Program Requirements per FY 2000 Budget	Total Program Requirements per FY 2001 Budget	Increase or Decrease (-)
BA 2: WEAPONS & TRACKED COMBAT VEHICLES	103.7	103.7	0.0
BA 3: GUIDED MISSILES & EQUIPMENT	86.8	86.8	0.0
BA 4: COMMUNICATIONS & ELECTRONICS EQUIPMENT	386.7	395.5	8.7
BA 5: SUPPORT VEHICLES	156.1	166.6	10.5
BA 6: ENGINEER & OTHER EQUIPMENT	74.2	78.2	4.0
BA 7: SPARES & REPAIR PARTS	38.9	26.7	-12.2
Subtotal Direct Program	846.5	857.5	10.9
Reimbursable	9.4	9.4	0.0
Total Fiscal Year	855.9	866.9	10.9

UNCLASSIFIED

Comparison of FY 1999 Program Requirements as Reflected  
in the FY 2000 Budget with the FY 1999 Requirements  
as shown in the FY 2001 Budget

Summary of Requirements (In Millions of Dollars)

BA 2: Weapons and Tracked Combat Vehicles \$0.0

BA 3: Guided Missiles and Equipment \$0.0

BA 4: Communications and Electronics Equipment +\$8.7

Changes reflect below threshold reprogramming for Y2K Switches (\$15.7), various other minor below threshold reprogrammings (-\$2.0), and Section 8090 Inflation Reduction (-\$5.0).

BA 5: Support Vehicles +\$10.5

Changes reflect various below threshold reprogrammings for Commercial Cargo Vehicles (\$9.0), Commercial Passenger Vehicles (-\$0.4), 5/4 Ton Truck HMMWV (\$0.5), Light Tactical Vehicle Replacement (\$0.7), and Logistics Vehicle System Replacement (\$0.7).

BA 6: Engineer and Other Equipment +\$4.0

Changes reflect below threshold adjustments for Assorted Power Equipment (-\$0.6), Amphibious Raid Equipment (-\$0.9), Material Handling Equipment (\$0.5), First Destination Transportation (-\$2.8), Containers (-\$0.7), other assorted items (\$0.2), and Cancelled Account Adjustments (\$8.2).

BA 7: Spares and Repair Parts -\$12.2

Changes reflect below threshold reprogramming (-\$12.2).

Comparison of FY 1999 Financing as Reflected  
in the FY 2000 Budget with the FY 1999 Financing  
as shown in the FY 2001 Budget

Summary of requirements (In millions of Dollars)

Description	Financing per FY 2000 Budget	Financing per FY 2001 Budget	Increase or Decrease (-)
Program Requirements (Total)	855.9	866.9	10.9
(Total Direct)	(846.5)	(857.5)	(10.9)
(Total Reimbursable)	(9.4)	(9.4)	0.0
Less:			
Anticipated Reimbursements	(9.4)	(9.4)	0.0

Explanation of Changes in Financing:

Changes reflect various reprogrammings (\$15.9) and Section 8090 Inflation Reduction (-\$5.0).



<b>Exhibit P-40, Budget Item Justification Sheet</b>										Date: <span style="float: right;">Feb 2000</span>		
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)						P-1 Item Nomenclature: AUTO TEST EQUIP (P44419)						
Program Elements for Code B Items:					Code:	Other Related Program Elements:						
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	49			90	85							224
Gross Cost	27.5			29.2	28.9	4.7						90.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	27.5			29.2	28.9	4.7	0.0	0.0	0.0	0.0		90.3
Initial Spares					0.7	0.8	0.3					1.8
Total Proc Cost	27.5			29.2	29.6	5.5	0.3					92.1
Flyaway U/C												
Wpn Sys Proc U/C												
<p>Automatic Test Equipment: Third Echelon Test System (TETS) provides mobile automatic test capabilities to the forward edge of the battlefield to test line replaceable units (RU) and circuit card assemblies (CCA). TETS provides for the rapid restoration of weapon systems at or near the forward edge of the battlefield. TETS consists of hardware and software portable equipment.</p>												

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)			P-1 Line Item Nomenclature: AUTO TEST EQUIP (P44419)			Weapon System Type:			Date: February 2000		
Weapon System Cost Elements	ID CD	FY 99			FY 00			FY 01					
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AN/USM-657 THIRD ECHELON TEST SYS													
TETS (BASIC)	A				17024	90	189151	16078	85	189151			
TETS RADIO FREQUENCY (RF)	A							10477	126	83154			
TETS INTERFACE(SAIF)	A							1415	175	8087			
TETS ELECTRO-OPTIC (EO)	A				7297	27	270260						
SPECIAL TEST EQUIPMENT					850						100		
OTHER SUPPORT					1091			782			947		
FACTORY TRAINING					50			50			100		
TRAVEL					10			10			10		
ILS					50			50			50		
ENGINEERING CHANGES					358						200		
FIRST ARTICLE TEST (EO)					2515								
CALIBRATION STANDARDS FOR EO											1857		
OPTION													
TEST EQUIPMENT FOR EO REPAIRS											1450		
<b>TOTAL</b>					<b>29245</b>			<b>28862</b>			<b>4714</b>		
<b>Active</b>					<b>26745</b>			<b>26662</b>			<b>4418</b>		
<b>Reserve</b>					<b>2500</b>			<b>2200</b>			<b>296</b>		
<b>Reserve</b>													

Exhibit P-5a, Budget Procurement History and Planning									Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)				Weapon System Type:		P-1 Line Item Nomenclature: AUTO TEST EQUIP (P44419)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
AN/USM-657 THIRD ECHELON TEST SYS										
TETS (BASIC) FY 99	Mantech Systems Engr Corp Chantilly, VA	O/FP	MCSC, Quantico, VA	Sep-99	May-00	90	189151	Y		N/A
FY 00	Mantech Systems Engr Corp Chantilly, VA	O/FP	MCSC, Quantico, VA	Nov-99	May-00	VAR	VAR	Y		N/A
TETS (RF) FY 00	Mantech Systems Engr Corp Chantilly, VA	O/FP	MCSC, Quantico, VA	Nov-99	May-00	VAR	VAR	Y		N/A
TETS (EO) FY 99	Mantech Systems Engr Corp Chantilly, VA	O/FP	MCSC, Quantico, VA	Sep-99	May-01	27	270260	Y		N/A
REMARKS:										

<b>Exhibit P-20, Requirements Study</b>		Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)				Date: Feb 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): AUTO TEST EQUIP (P44419)		Admin Leadtime (after Oct 1): 6 Months				Prod Leadtime: 6 Months		
Line Descriptions		FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary		90	85					
Unit Cost		189.2	189.2					
Total Cost		17024.0	16078.0					
Asset Dynamics								
Beginning Asset Position (FY 97 LRIP)		12	12	115	180	226		
Deliveries from: FY 1999 Funding			64	26				
Deliveries from: FY 2000 Funding				39	46			
Deliveries from: FY 2001 Funding								
Deliveries from Subsequent Years Funds								
Other Gains			39					
Combat Losses								
Training Losses								
Test Losses								
Other Losses								
Disposals/Retirements/Attritions								
End of Year Asset Position		12	115	180	226			
Inventory Objective or Current Authorized Allowance								
Inventory Objective 228	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for Replacement	Aircraft: TOAI			
Assets Rqd for Combat Loads:	thru FY XXXX	thru FY XXXX	thru FY XXXX	FY 2000	PAA: TAI			
WRM Rqmt:	FY XXXX	FY XXXX	FY XXXX	FY 2001	Attrition Res			
Pipeline:	FY XXXX	FY XXXX	FY XXXX	Augment	BAI			
Other:	FY XXXX	FY XXXX	FY XXXX		Inactive Inv			
Total:					Storage			
<p><b>Remarks:</b> These numbers show TETS system quantities. There are three versions of TETS; (V)1 = Basic, (V)2 = RF and (V)3 = EO. The RF and EO versions are not stand alone systems. The TETS (V)1 Basic is a standalone system but is also the basic platform required for the RF and EO versions. For the quantity of 226 shown above: Basic (V)1=40, RF (V)2=159 and EO (V)3=27.</p>								

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<b>Exhibit P-40, Budget Item Justification Sheet</b>										Date: February 2000		
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 018						P-1 Item Nomenclature: GENERAL PURPOSE ELECTRONIC TEST EQUIP (P44588)						
Program Elements for Code B Items:					Code:	Other Related Program Elements:						
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	38.3			9.1	10.6	8.2	8.0	8.3	8.6	9.0	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	38.3			9.1	10.6	8.2	8.0	8.3	8.6	9.0	Cont.	Cont.
Initial Spares	1.3			0.1	0.5	0.3	0.2	0.3	0.2	0.3	Cont.	Cont.
Total Proc Cost	39.6			9.2	11.1	8.5	8.2	8.6	8.8	9.3	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C												
<p>Funds allocated under this line are used to procure General Purpose Electronic Test Equipment (GPETE) items. Funds sustain modernization and standardization efforts, in addition to meeting new requirements. These GPETE items are required to support USMC weapon systems that utilize or consist of electronic components. USMC operating forces (Division and Wing) use GPETE items to test and measure the performance of their weapon systems to ensure they are operating properly and safely. USMC supporting maintenance forces, Force Service Support Group (FSSG) use GPETE items to test, troubleshoot, repair, and align broken weapon systems due to normal operational failures or due to combat damage. This GPETE is essential to the operational readiness of the Marine Corps for the installation, operation, and maintenance (preventive and routine) of electronic weapon systems and equipment in both the USMC operating forces (Div/Wing/FSSG) as well as the supporting establishment (Schools/Bases). (RCN: 045887)</p> <p>This is a roll-up line that consists of many different items and separate acquisitions.</p> <p>All of these items are required to support other Marine Corps systems already fielded or in the acquisition pipeline.</p>												

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps /Communications and Electronic Equipment			P-1 Line Item Nomenclature: GENERAL PURPOSE ELECTRONIC TEST EQUIP (P44588)			Weapon System Type:			Date: February 2000		
Weapon System Cost Elements	ID CD				FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
					\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
FUNCTION GENERATOR					601	250	2403	605	250	2419	605	250	2421
PROTOCOL ANALYZER, LOCAL AREA NETWORK (LAN)					640	60	10667	535	50	10699	643	60	10719
PROTOCOL ANALYZER, TELEPHONE (TEL)					692	30	23083	694	30	23142	811	35	23158
HANDHELD BIT ERROR RATE TESTER (BERT)					313	100	3133						
FREQUENCY COUNTER (CW)					136	30	4544						
ANALYZER, SPECTRUM (RF)					204	25	8176						
OSCILLOSCOPE					2280	250	9119	2281	250	9124	2374	260	9131
ADAPTER, CONNECTOR					138	50	2759						
BATTERY TESTER					1678	335	5009						
ANALYZER POWER (HANDHELD)					119	50	2374	121	50	2412	121	50	2429
TEST SET, RADIO					455	30	15160	457	30	15220	457	30	15243
CABLE TESTER (LAN)					173	50	3465	174	50	3470	174	50	3475
CONTROLLER (LAB VOLT)					398	150	2653						
TEST SET, TELCOM					389	40	9729	389	40	9733	390	40	9739
MULTIMETER					97	50	1945	195	100	1946	195	100	1947
OSCILLOSCOPE (HANDHELD)								1045	120	8708	960	110	8727
COMPUTER TEST EQUIPMENT					76	22	3460						
FREQUENCY COUNTER (RF)								569	500	1138	600	500	1200

Exhibit P-5a. Budget Procurement History and Planning										Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps /Communications and Electronic Equipment / P4458018				Weapon System Type:			P-1 Line Item Nomenclature: GENERAL PURPOSE ELECTRONIC TEST EQUIP (P44588)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date	
FUNCTION GENERATOR											
FY 99	Hewlett Packard, Santa Clara, CA	MILSTRIP	Navy (NAVICP)	Jan-99	Apr-99	250	2403	Yes	N/A	N/A	
FY 00	Hewlett Packard, Santa Clara, CA	MILSTRIP	Navy (NAVICP)	Jan-00	Apr-00	250	2419	Yes	N/A	N/A	
FY 01	Hewlett Packard, Santa Clara, CA	MILSTRIP	Navy (NAVICP)	Jan-01	Apr-01	250	2421	Yes	N/A	N/A	
PROTOCOL ANALYZER (LAN)											
FY 99	Fluke, Everett, WA	MILSTRIP	Navy (NAVICP)	Jan-99	May-99	60	10667	Yes	N/A	N/A	
FY 00	Fluke, Everett, WA	MILSTRIP	Navy (NAVICP)	Jan-00	May-00	50	10699	Yes	N/A	N/A	
FY 01	Fluke, Everett, WA	MILSTRIP	Navy (NAVICP)	Jan-01	May-01	60	10719	Yes	N/A	N/A	
PROTOCOL ANALYZER (TEL)											
FY 99	W&G, Triangle Park, NC	MILSTRIP	Navy (NAVICP)	Jan-99	May-99	30	23083	Yes	N/A	N/A	
FY 00	W&G, Triangle Park, NC	MILSTRIP	Navy (NAVICP)	Jan-00	May-00	30	23142	Yes	N/A	N/A	
FY 01	W&G, Triangle Park, NC	MILSTRIP	Navy (NAVICP)	Jan-01	May-01	35	23158	Yes	N/A	N/A	
HANDHELD BIT ERROR RATE TESTER (BERT)											
FY 99	IDS, Lincoln, RI	MILSTRIP	USMC	Jan-99	May-99	100	3133	Yes	N/A	N/A	
FREQUENCY COUNTER (CW)											
FY 99	Hewlett Packard,SantaClara, CA	MILSTRIP	Navy (NAVICP)	Jan-99	May-99	30	4544	Yes	N/A	N/A	
ANALYZER, SPECTRUM (RF)											
FY 99	Anritsu, Morgan Hill, CA	MILSTRIP	Navy (NAVCP)	Jan-99	Apr-99	25	8176	Yes	N/A	N/A	
REMARKS:											





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FY 00 / 01 BUDGET PRODUCTION SCHEDULE							GENERAL PURPOSE ELECTRONIC TEST EQUIP (P44588)																				February 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature:		Date:																						
							GENERAL PURPOSE ELECTRONIC TEST EQUIP (P44588)												February 2000												
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												LATER
							Calendar Year 00												Calendar Year 01												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
OSCILLOSCOPE																															
	1	FY 99	MC	250	200	50																							50		
	1	FY 00	MC	250	0	250					A			50	50	50	50	50													
	1	FY 01	MC	260	0	260														A				50	50	50	50	50	10		
BATTERY TESTER																															
	3	FY 99	MC	335	0	335	40	40	40	40	40	15																	120		
OSCILLOSCOPE (HANDHELD)																															
	4	FY 00	MC	120	0	120					A					20	30	30	40												
	4	FY 01	MC	110	0	110														A						20	30	40	20		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
MFR	NAME / LOCATION				PRODUCTION RATES		REACHED	MFR Number	ADMIN LEAD TIME		MFR	TOTAL	REMARKS																		
					MIN.	1-8-5	MAX.	D +	Prior 1 Oct. After 1 Oct.		After 1 Oct.	After 1 Oct.	*Commercial Items.																		
1	Hewlett Packard, Santa Clara, CA				*CI	*CI	*CI		INITIAL																						
2	W&G, Triangle Park, NC				*CI	*CI	*CI		REORDER																						
3	Delta Chemtronics				*CI	*CI	*CI		INITIAL																						
4	TBD				*CI	*CI	*CI		REORDER																						
									INITIAL																						
									REORDER																						
									INITIAL																						
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FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: GENERAL PURPOSE ELECTRONIC TEST EQUIP (P44588)																						Date: February 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: GENERAL PURPOSE ELECTRONIC TEST EQUIP (P44588)																												Date: February 2000	
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98														Fiscal Year 99														L A T E R	
							Calendar Year 98														Calendar Year 99															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
OSCILLOSCOPE																																				
	1	FY 99	MC	250	0	250																														
	1	FY 00	MC	250	0	250																											250			
	1	FY 01	MC	260	0	260																											260			
BATTERY TESTER																																				
	3	FY99	MC	335	120	215	40	40	40	40	40	15																								
OSCILLOSCOPE (HANDHELD)																																				
	4	FY 00	MC	120	0	120																											120			
	4	FY 01	MC	110	0	110																											110			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
MFR	NAME / LOCATION		PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR	TOTAL	REMARKS																								
			MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.	After 1 Oct.	After 1 Oct.	*Commercial Items.																								
1	Hewlett Packard, Santa Clara, CA		*CI	*CI	*CI			INITIAL																												
2	W&G, Triangle Park, NC		*CI	*CI	*CI			REORDER																												
3	Delta Chemtronics		*CI	*CI	*CI			INITIAL																												
4	TBD							REORDER																												
								INITIAL																												
								REORDER																												
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Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps /Communications and Electronic Equipment / P4458018				Weapon System Type:		P-1 Line Item Nomenclature: GENERAL PURPOSE ELECTRONIC TEST EQUIP (P44588)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date	
OSCILLOSCOPE											
FY 99	Hewlett Packard, Santa Clara, CA	MILSTRIP	Navy (NAVICP)	Jan-99	Apr-99	250	9119	Yes	N/A	N/A	
FY 00	Hewlett Packard, Santa Clara, CA	MILSTRIP	Navy (NAVICP)	Jan-00	Apr-00	250	9124	Yes	N/A	N/A	
FY 01	Hewlett Packard, Santa Clara, CA	MILSTRIP	Navy (NAVICP)	Jan-01	Apr-01	260	9131	Yes	N/A	N/A	
ADAPTER, CONNECTOR											
FY99	IFR,WICHITA, KS	MIPR	Army, CECOM	May-99	Aug-99	50	2759	Yes	N/A	N/A	
BATTERY TESTER											
FY 99	Delta Chemtronics	MILSTRIP	Army	Jan-99	Jul-99	335	5009	Yes	N/A	N/A	
ANALYZER POWER (HANDHELD)											
FY 99	Fluke, Everett, WA	MILSTRIP	Navy (NAVICP)	Apr-99	Jul-99	50	2374	Yes	N/A	N/A	
FY 00	Fluke, Everett, WA	MILSTRIP	Navy (NAVICP)	Jan-00	May-00	50	2412	Yes	N/A	N/A	
FY 01	Fluke, Everett, WA	MILSTRIP	Navy (NAVICP)	Jan-01	May-01	50	2429	Yes	N/A	N/A	
TEST SET, RADIO											
FY 99	IFR, Wichita, KS	C/FP	USMC	Apr-99	Sep-99	30	15160	Yes	N/A	N/A	
FY 00	IFR, Wichita, KS	C/FP	USMC	Jan-00	Jun-00	30	15220	Yes	N/A	N/A	
FY 01	IFR, Wichita, KS	C/FP	USMC	Jan-01	Jun-01	30	15243	Yes	N/A	N/A	
REMARKS:											

Exhibit P-5a. Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps /Communications and Electronic Equipment / P4458018										February 2000
Weapon System Type:				P-1 Line Item Nomenclature: GENERAL PURPOSE ELECTRONIC TEST EQUIP (P44588)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
CABLE TESTER (LAN)										
FY 99	Wavetek, San Diego, CA	MIPR	Navy (NAVICP)	Jan-99	Apr-99	50	3465	Yes	N/A	N/A
FY 00	Wavetek, San Diego, CA	MIPR	Navy (NAVICP)	Jan-00	Apr-00	50	3470	Yes	N/A	N/A
FY 01	Wavetek, San Diego, CA	MIPR	Navy (NAVICP)	Jan-01	Apr-01	50	3475	Yes	N/A	N/A
CONTROLLER (LAB VOLT)										
FY 99	Hewlett Packard, Palo Alto, CA	C/FP	MCSC, Quantico, VA	May-99	Jul-99	150	2653	Yes	N/A	N/A
TEST SET, TELCOM										
FY 99	TBD	C/FP	Navy (NAVICP)	Apr-99	Dec-99	40	9729	Yes	N/A	N/A
FY 00	TBD	MIPR	Navy (NAVICP)	Apr-00	Jun-00	40	9733	Yes	N/A	N/A
FY 01	TBD	MIPR	Navy (NAVICP)	Apr-01	Jun-01	40	9739	Yes	N/A	N/A
MULTIMETER										
FY 99	TBD	C/FP	Navy (NAVICP)	Mar-99	Aug-99	50	1945	Yes	N/A	N/A
FY 00	TBD	MIPR	Navy (NAVICP)	Jan-00	Apr-00	100	1946	Yes	N/A	N/A
FY 01	TBD	MIPR	Navy (NAVICP)	Jan-01	Apr-01	100	1947	Yes	N/A	N/A
OSCILLOSCOPE (HANDHELD)										
FY 00	TBD	C/FP	TBD	Mar-00	Jul-00	120	8708	Yes	N/A	N/A
FY 01	TBD	C/FP	TBD	Jan-01	Jul-01	110	8727	Yes	N/A	N/A
REMARKS:										



Exhibit P-5a. Budget Procurement History and Planning										Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps /Communications and Electronic Equipment / P4458018				Weapon System Type:		P-1 Line Item Nomenclature: GENERAL PURPOSE ELECTRONIC TEST EQUIP (P44588)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date	
COMPUTER TEST EQUIPMENT FY 99	Sencore, Sioux Falls, SD	C/FP	USMC	Mar-99	Jun-99	22	3460	Yes	N/A	N/A	
FREQUENCY COUNTER (RF) FY 00	Hewlett Packard Santa Anna CA	Milstrip	Navy (NAVICP)	Jan-00	Jul-00	500	1138	Yes	N/A	N/A	
FY 01	Hewlett Packard Santa Anna CA	Milstrip	Navy (NAVICP)	Jan-01	Jul-01	500	1200	Yes	N/A	N/A	
REMARKS:											

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps /Communications and Electronic Equipment			P-1 Line Item Nomenclature: GENERAL PURPOSE ELECTRONIC TEST EQUIP (P44588)			Weapon System Type:			Date: February 2000		
Weapon System Cost Elements	ID	FY 99			FY 00			FY 01					
	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
					\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
K-BAND TEST SYSTEM								2624					
SOFTWARE SUPPORT Operating Software Test Program Set, (TPS)/Gold Disks					288			389			396		
LOGISTICS SUPPORT Training Material Factory Training Tech Manuals Provisioning Data Acceptance Testing					442			509			515		
TOTAL					9119			10587			8241		
Active					7733			9387			7033		
Reserve					1386			1200			1208		

<b>Exhibit P-40, Budget Item Justification Sheet</b>								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)						P-1 Item Nomenclature: INTELLIGENCE SUPPORT EQUIPMENT (P44257)						
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	124.5			10.1	19.0	12.0	9.5	10.7	8.8	9.2	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	124.5			10.1	19.0	12.0	9.5	10.7	8.8	9.2	Cont	Cont
Initial Spares	9.8			4.4	3.2	1.1	2.8	0.8	0.3	0.8	Cont	Cont
Total Proc Cost	134.3			14.4	22.2	13.6	12.3	11.5	9.6	10.0	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												

This is a composite line of the intelligence equipment which includes:

Trojan Spirit II - a mobile, stand alone SHF (C, Ku, and X) satellite communication processing system capable of providing secondary imagery products and secure, dial-up voice, data and facsimile communications to a worldwide internetwork of subscribers.

Intelligence Analysis System (IAS) (MEF) - will provide finished intelligence data to the commander in near-real-time, allowing him to act on intelligence, rather than react to events. The IAS consists of three subsystems: IAS (Suites), IAS (MEF), and IAS (Workstations).

Radio Reconnaissance Equipment Program (RREP) - provides the FMF Radio Battalions, Radio Reconnaissance Platoons (RRP) with mission unique Signals Intelligence/Ground Electronic Warfare (SIGINT/EW) Equipment suites.

CI/HUMINT Equipment Program (CIHEP) - provides CH/HUMINT Companies with an enhanced capability to collect, receive, process and disseminate counterintelligence (CI), interrogator-translator (IT) and human resources intelligence (HUMINT) from overt, sensitive, technical, tactical, CI/Force Protection and HUMINT operations in the service, joint and combined forces arenas.

Topographic Production Capability (TPC) - an advanced Geographic Information System which employs commercial computer and software to provide the framework data for the common battlefield visualization by producing both hardcopy and digital geographic intelligence.

<b>Exhibit P-40, Budget Item Justification Sheet</b>		Date: February 2000
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)		P-1 Item Nomenclature: INTELLIGENCE SUPPORT EQUIPMENT (P44257)
<p>Intelligence Broadcast Receiver (IBR) - provides the Marine Corps with a multi-service intelligence dissemination interoperability into the next century, meeting criteria by the multi-service intelligence dissemination architecture panel.</p> <p>Coastal Battlefield Reconnaissance and Analysis (COBRA) - a passive multispectral sensor system capable of operating in a PIONEER unmanned aerial vehicle (UAV).</p> <p>Tactical Remote Sensor System (TRSS) - will provide all weather direction, location determination, targeting, and tactical indications and warning of enemy activity in the Marine Commander's Area of Interest.</p> <p>The TEG is a highly mobile imagery ground station designed to process tactical imagery in support of the MAGTF commander. The system is an integral component of the Joint Service Imagery Processing System (JSIPS), complementing the capabilities of the JSIPS National Input Segment (NIS) located at Camp Pendleton.</p>		

## Date: February 2000

[illegible]

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020			P-1 Line Item Nomenclature: INTELLIGENCE SUPPORT EQUIPMENT (P44257)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 99			FY 00			FY 01					
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
TROJAN SPIRT II	A							5094					
INTELLIGENCE ANALYSIS SYSTEM (MEF)	A				10063								
RADIO RECONNAISSANCE EQUIP	A							2841					
CI/HUMINT EQUIPMENT PROGRAM	A							2613					
TOPOGRAPHIC PRODUCTION CAPABILITY	B										7162		
INTELLIGENCE BROADCAST RECEIVER	A							1464			3839		
TACTICAL REMOTE SENSOR SYSTEM	A							6020					
JSIPS TEG	A							973			959		
<b>TOTAL</b>					<b>10063</b>			<b>19005</b>			<b>11960</b>		
<b>ACTIVE</b>					<b>9075</b>			<b>18523</b>			<b>11960</b>		
<b>RESERVES</b>					<b>988</b>			<b>482</b>			<b>0</b>		

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020						P-1 Item Nomenclature: TROJAN SPIRIT II (A44104)						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
	Prior Years		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	2				6							8.0
Gross Cost	7.5				5.1							12.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	7.5				5.1							12.6
Initial Spares				0.3			0.7					1.0
Total Proc Cost	7.5			0.3	5.1		0.7					13.7
Flyaway U/C												
Wpn Sys Proc U/C	4				.8							
<p>The 66AS-2 Tri Band Antenna is a ruggedized, HMMWV-transportable 6.1 meter antenna system that operates in the C, Ku and X frequency bands. It consists of a 6.1 meter triband SATCOM antenna, trailer, antenna control unit (ACU), and RF specific components to provide a complete antenna system capable of tactical SATCOM operation. The 66AS-2 was developed specifically for use with the Trojan Spirit II tactical SATCOM terminal.</p>												

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020			P-1 Line Item Nomenclature: TROJAN SPIRT II (A44104)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Antenna-66AS-2	A							5094	6	849000			
TOTAL Active Reserve								5094 5094					



Exhibit P-5a, Budget Procurement History and Planning									Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020				Weapon System Type:		P-1 Line Item Nomenclature: TROJAN SPIRT II (A44104)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Antenna-66AS-2 FY 00	USA CECOM Ft Monmouth, NJ	FFP	USA CECOM	Jan-00	Jun-00	6	849000	Yes	No	N/A
REMARKS:										

<b>Exhibit P-20, Requirements Study</b>			Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020				Date: February 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): INTELLIGENCE SUPPORT EQUIPMENT (P44257) Trojan Spirit II			Admin Leadtime (after Oct 1): 3 Months				Prod Leadtime: 5 Months		
Line Descriptions	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	
Buy Summary			6						
Unit Cost			849.0						
Total Cost			5094.0						
Asset Dynamics									
Beginning Asset Position	2	2	2	8	8	8	8	8	
Deliveries from: FY 1999 Funding									
Deliveries from: FY 2000 Funding			6						
Deliveries from: FY 2001 Funding									
Deliveries from Subsequent Years Funds									
Other Gains									
Combat Losses									
Training Losses									
Test Losses									
Other Losses									
Disposals/Retirements/Attritions									
End of Year Asset Position	2	2	8	8	8	8	8	8	
Inventory Objective or Current Authorized Allowance									
Inventory Objective 8	Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement	Aircraft: TOAI	
Assets Rqd for Combat Loads:	98 thru FY XXXX	98 thru FY XXXX	98 thru FY XXXX		FY 2000		PAA: TAI		
WRM Rqmt:	FY XXXX	FY XXXX	FY XXXX		FY 2001		Attrition Res		
Pipeline:	FY XXXX	FY XXXX	FY XXXX		Augment		BAI		
Other:	FY XXXX	FY XXXX	FY XXXX				Inactive Inv Storage		
Total:									
<b>Remarks:</b>									

[illegible]

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020						P-1 Item Nomenclature: RADIO RECONNAISSANCE EQUIP PROGRAM (A44435)						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
	Prior Years		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	18				18			18				54
Gross Cost	2.7				2.8			3.9				9.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2.7				2.8			3.9				9.4
Initial Spares												
Total Proc Cost	2.7				2.8			3.9				9.4
Flyaway U/C												
Wpn Sys Proc U/C					.2			.2				
<p>The Radio Reconnaissance Equipment Program (RREP) provides the FMF Radio Battalions, Radio Reconnaissance Platoons (RRP) with mission unique Signals Intelligence/Ground Electronic Warfare (SIGINT/EW) Equipment suites. Continuing with an evolutionary acquisition approach, the third suite RREP-SS-2 will provide the RRP's with the capability to conduct SIGINT/EW operations in support of Marine Air Ground Task Force (MAGTF) Commanders during advance force, special operations, and other special purpose missions where the use of conventional Radio Battalion assets are not feasible. RREP-SS-2 is a ruggedized, modular, man packable system specifically designed utilizing emerging NDI/COTS technology for RRP operations, particularly those conducted under the most austere conditions. The RREP-SS-2 module configuration has an "open systems" architecture that will permit future upgrades by simply installing cutting edge NDI/COTS technology into the standard modules. The fourth suite, RREP-SS-3, to be fielded in FY04, will have the added capability to intercept those emerging target sets as identified by the NSA, be operated from remoted positions, and incorporate polymer battery technologies.</p>												

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020						P-1 Item Nomenclature: CI/HUMINT (A443XX)						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
	Prior Years		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	24				41							65
Gross Cost	4.6				2.6							7.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.6				2.6							7.2
Initial Spares												
Total Proc Cost	4.6				2.6							7.2
Flyaway U/C												
Wpn Sys Proc U/C	0				.1							.1
<p>The Counterintelligence and Human Intelligence Equipment Program (CIHEP) is suites of state-of-the-market commercial-off-the-shelf (COTS) and non-developmental item (NDI) equipment. CIHEP provides each CI/HUMINT Company with the ability to collect, receive, process and disseminate counterintelligence (CI), interrogator-translator (IT) and human intelligence (HUMINT) information from overt, controlled, sensitive, technical, tactical, CI/Force Protection and HUMINT operations in the service, joint and combined forces arenas. CIHEP integrates audio, video, imagery, communications, technical surveillance and automated data processing equipment modules into lightweight, scaleable, deployable packages. CIHEP will replace outdated equipment currently used by CI/HUMINT Companies.</p> <p>***Note: Starting in FY00 procurement of all computer workstations and servers are centrally procured under BLI 463000 (CCR). The following amounts are for this project:</p> <p>Workstations    FY00   FY01   FY02   FY03   FY04   FY05                              QTY    117                              \$    0.615</p>												

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000																
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020						P-1 Item Nomenclature: TOPOGRAPHIC PRODUCTION CAPABILITY (A444XX)																		
Program Elements for Code B Items:				Code: B	Other Related Program Elements:																			
	Prior Years		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog												
Proc Qty						2	2	1				5												
Gross Cost						7.2	6.6	3.9	1.6	0.6	Cont	Cont												
Less PY Adv Proc																								
Plus CY Adv Proc																								
Net Proc (P-1)						7.2	6.6	3.9	1.6	0.6	Cont	Cont												
Initial Spares							0.5	0.5	0.3			1.3												
Total Proc Cost						7.2	7.2	4.5	1.9	0.6	Cont	Cont												
Flyaway U/C																								
Wpn Sys Proc U/C						3.1	3.3	3.9				10.3												
<p>The TPC is an advanced Geographic Information System, which employs commercial computer and software to provide the framework data for the common battlefield visualization by producing both hardcopy and digital geographic intelligence.</p> <p>***Note: Starting in FY00 procurement of all computer workstations and servers are centrally procured under BLI 463000 (CCR). The following amounts are for this project:</p> <table style="margin-left: 40px; border: none;"> <tr> <td></td> <td style="text-align: center;">QTY/FY01</td> <td style="text-align: center;">QTY/FY02</td> <td style="text-align: center;">QTY/FY03</td> </tr> <tr> <td>WORKSTATIONS</td> <td style="text-align: center;">48/0.667</td> <td style="text-align: center;">48/0.667</td> <td style="text-align: center;">14/0.200</td> </tr> <tr> <td>SERVERS</td> <td style="text-align: center;">16/0.754</td> <td style="text-align: center;">16/0.754</td> <td style="text-align: center;">0</td> </tr> </table>														QTY/FY01	QTY/FY02	QTY/FY03	WORKSTATIONS	48/0.667	48/0.667	14/0.200	SERVERS	16/0.754	16/0.754	0
	QTY/FY01	QTY/FY02	QTY/FY03																					
WORKSTATIONS	48/0.667	48/0.667	14/0.200																					
SERVERS	16/0.754	16/0.754	0																					

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020			P-1 Line Item Nomenclature: TOPOGRAPHIC PRODUCTION CAPABILITY (A444XX)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Topographic Production Capability											6116	2	3058000
Contractor Support Services											381		
Integrated logistics Support											665		
<b>TOTAL Active Reserve</b>											<b>7162 7162 0</b>		

Exhibit P-5a, Budget Procurement History and Planning									Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020				Weapon System Type:		P-1 Line Item Nomenclature: TOPOGRAPHIC PRODUCTION CAPABILITY (A444XX)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Topographic Production Capability FY 01	TBD	TBD	TBD	TBD	TBD	2	3058000	No	N/A	N/A
REMARKS:										



<b>Exhibit P-20, Requirements Study</b>			Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020				Date: February 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): INTELLIGENCE SUPPORT EQUIPMENT (P44257)			Admin Leadtime (after Oct 1): xx Months				Prod Leadtime: xx Months		
Line Descriptions	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	
Buy Summary TPC				2	2	1			
Unit Cost				3581.0	3317.5	3931.0			
Total Cost				7162.0	6635.0	3931.0			
Asset Dynamics									
Beginning Asset Position					2	4			
Deliveries from: FY 1999 Funding									
Deliveries from: FY 2000 Funding									
Deliveries from: FY 2001 Funding				2					
Deliveries from Subsequent Years Funds					2	1			
Other Gains									
Combat Losses									
Training Losses									
Test Losses									
Other Losses									
Disposals/Retirements/Attritions									
End of Year Asset Position				2	4	5			
Inventory Objective or Current Authorized Allowance									
Inventory Objective 5	Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement	Aircraft: TOAI	
Assets Rqd for Combat Loads:	98 thru FY XXXX		98 thru FY XXXX		98 thru FY XXXX		FY 2000	PAA: TAI	
WRM Rqmt:	FY XXXX		FY XXXX		FY XXXX		FY 2001	Attrition Res	
Pipeline:	FY XXXX		FY XXXX		FY XXXX		Augment	BAI	
Other:	FY XXXX		FY XXXX		FY XXXX			Inactive Inv	
Total:								Storage	
<b>Remarks:</b> ***Note: Starting in FY00 total system cost includes funding from BLI 463000 (CCR) in the amounts identified on the P-40 for this project.									

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020						P-1 Item Nomenclature: INTELLIGENCE BROADCAST RECEIVER (IBR) (A445XX)						
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					9	26						35
Gross Cost					1.5	3.9						5.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					1.5	3.9						5.4
Initial Spares												
Total Proc Cost					1.5	3.9						5.4
Flyaway U/C												
Wpn Sys Proc U/C					.2	.2						.3
<p>The Marine Corps Intelligence Broadcast Receiver (IBR) program consists of two systems: the AN/USC-55, commonly referred to as the Commanders' Tactical Terminal Three-Channel (CTT3) and the Joint Tactical Terminal. These IBR systems receive, decrypt and process near-real time intelligence data simultaneously from the multiple sources of: Tactical Intelligence Broadcast Service, Tactical Data Dissemination System, Tactical Data Information Exchange System B and the Tactical Reconnaissance Information Exchange System supporting the Army Guardrail Common Sensor program. The Marine Corps IBR systems will provide intelligence data to the command, control and intelligence elements of the Marine Air-Ground Task Force. The Marine Corps completed procurement of CTT3 systems during FY97 and is now procuring Joint Tactical Terminals through the U.S. Army, PM JTT as replacements for the lesser capable CTT3 systems.</p>												

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020						P-1 Item Nomenclature: TACTICAL REMOTE SENSOR SYSTEM (TRSS)						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost					6.0							6.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					6.0							6.0
Initial Spares	2.8			0.1	0.7	0.5	1.0	0.3		0.8		6.2
Total Proc Cost				0.1	6.7	0.5	1.0	0.3		0.8		13.7
Flyaway U/C												
Wpn Sys Proc U/C												
<p>Tactical Remote Sensor Systems (TRSS) will provide all weather direction, location determination, targeting, and tactical indications and warning of enemy activity in the Marine Commander's Area of Interest. Sensors are implanted by tactical aircraft, ground reconnaissance forces, and other ground forces as tasked. Sensors are monitored by real-time by the Sensor Mobile Monitoring system (SMMS; a component of TRSS). Monitoring range can be extended by ground and airborne relay sets. The relay storage capability allows sensor data to be time-tagged and stored for up to 30 days when continuous monitoring is not desirable. Relays can be controlled or interrogated over RF links to change modes (i.e. relay, store, frequency selection, power conservation modes). Sensor information is provided to the Intelligence Analysis System (IAS) over in integrated comms suite in the SMMS and then processed into the overall intelligence picture.</p> <p>***Note: Starting in FY00 procurement of all computer workstations and servers are centrally procured under BLI 463000 (CCR). The following amounts are for this project:</p> <p>Workstations    FY00                              QTY    50                              \$    0.300</p>												

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020			P-1 Line Item Nomenclature: TACTICAL REMOTE SENSOR SYSTEM (TRSS)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Air Delivered Sensors (ADS)								3056	332	9205			
ADS Batteries								498	1155	432			
Enhanced Battery Box								700	518	1351			
Test Sets								825	11	75000			
DMF Basic Buyout								183					
Program Support								290					
Integrated Logistics Support								468					
<b>TOTAL</b>								<b>6020</b>					
<b>ACTIVE</b>								<b>6020</b>					
<b>RESERVE</b>								<b>0</b>					

Exhibit P-5a, Budget Procurement History and Planning									Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020				Weapon System Type:			P-1 Line Item Nomenclature: TACTICAL REMOTE SENSOR SYSTEM (TRSS)			
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Air Delivered Sensors (ADS) FY 00	Northrup Grumman Meadowlake, IL	SS	Crane, IN	Mar-00	Jul-00	332	9205	Yes	N/A	N/A
ADS Batteries FY 00	Unknown	C/FFP	MARCORSYSCOM	Mar-00	Apr-00	1155	432	Yes	N/A	N/A
Enhanced Battery Box FY 00	Unknown	C/FFP	MARCORSYSCOM	Mar-00	Jun-00	518	1351	Yes	N/A	N/A
Test Sets FY 00	Raytheon Indianapolis, IN	FFP	NAVAIR	Mar-00	Sep-00	11	75000	Yes	N/A	N/A
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 020						P-1 Item Nomenclature: JOINT SERVICE IMAGERY PROCESSING SYSTEM (JSIPS) TEG						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
	Prior Years		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost					1.0	1.0	2.9	2.9	2.9			10.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					1.0	1.0	2.9	2.9	2.9			10.7
Initial Spares												
Total Proc Cost					1.0	1.0	2.9	2.9	2.9			10.7
Flyaway U/C												
Wpn Sys Proc U/C												
<p>The TEG is a highly mobile imagery ground station designed to process tactical imagery in support of the MAGTF commander. The system is an integral component of the Joint Service Imagery Processing System (JSIPS), complementing the capabilities of the JSIPS National Input Segment (NIS) located at Camp Pendleton. Initially, the system will provide the capability to receive, process, store, exploit, and disseminate Advanced Tactical Air Reconnaissance System (ATARS) electro-optical, infrared, and synthetic aperture radar imagery from the from the F/A-18D (RC) and receive national secondary imagery from the NIS. Upgrades will make the system capable of processing ASARS-2, UAV, and U-2 EO imagery, as well as other sensor systems. Imagery can be received and processed in near real time via the Tactical Interoperable Ground Data Link (TIGDL) Common Data Link (CDL) or from tape recorded aboard the collection platform. The TEG is packaged in three high mobility multi-purpose wheeled vehicles (HMMWV) and will support each MEF's tactical imagery support needs. The TEG maximizes the use of existing DoD systems and interfaces and supports the directive from OSD and the Defense Airborne Reconnaissance Office (DARO) for migration to the Common Imagery Ground/Surface System (CIGSS) standards.</p>												

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000																																				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 021						P-1 Item Nomenclature: MODIFICATION KITS (INTEL) (P44823)																																						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:																																							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog																																
Proc Qty																																												
Gross Cost	15.1			5.2	18.4	5.0	5.8	2.3	7.5	3.5	Cont	Cont																																
Less PY Adv Proc																																												
Plus CY Adv Proc																																												
Net Proc (P-1)	15.1			5.2	18.4	5.0	5.8	2.3	7.5	3.5	Cont	Cont																																
Initial Spares	0.9			1.3	3.4	2.0	1.9	1.5	1.4	0.9	Cont	Cont																																
Total Proc Cost	16.0			6.5	21.8	7.0	7.7	3.8	8.9	4.4	Cont	Cont																																
Flyaway U/C																																												
Wpn Sys Proc U/C																																												
<p>Modifications under this line are for the purpose of correcting equipment deficiencies noted after new items are fielded, or to increase operational capabilities of end items previously fielded. The funding profile supports modifications to the following intelligence systems. All items are Code A.</p> <p>Tactical Electronic Reconnaissance Processing and Evaluation System (TERPES), AN/TSQ-90  Intelligence Analysis System Mod (IAS MOD)  Team Port Comm Sys (TPCS- Upgrade)  Joint Surveillance Target Attack Radar System (JSTARS)  Technical Control &amp; Analysis Center PIP (TCAC-PIP)  Tactical Remote Sensor System (TRSS)</p>																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">MOD</th> <th style="width: 30%;">INSTALLING AGENT</th> <th colspan="2" style="width: 40%;">INSTALLATION</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>TERPES</td> <td>NAWC WPNS PT MUGU, CA</td> <td>BEGIN: JAN 98</td> <td>END: MAR 03</td> </tr> <tr> <td>IAS MOD MEMORY DATA STORAGE</td> <td>NSWC, CRANE IN</td> <td>BEGIN: OCT 96</td> <td>END: DEC 03</td> </tr> <tr> <td>TPCS (UPGRADE) PHASE II</td> <td>NATIONAL SECURITY AGENCY, FT MEADE, MD</td> <td>BEGIN: NOV 00</td> <td>END: MAR 02</td> </tr> <tr> <td>JSTARS</td> <td>MOTOROLA, SCOTTSDALE, AZ</td> <td>BEGIN: DEC 00</td> <td>END: DEC 00</td> </tr> <tr> <td>TCAC</td> <td>NAWC WPN, PT MUGU, CA</td> <td>BEGIN: JAN 97</td> <td>END: DEC 03</td> </tr> <tr> <td>TRSS</td> <td>L3 COMM</td> <td>BEGIN: MAR 99</td> <td>END: SEP 99</td> </tr> </tbody> </table>													MOD	INSTALLING AGENT	INSTALLATION						TERPES	NAWC WPNS PT MUGU, CA	BEGIN: JAN 98	END: MAR 03	IAS MOD MEMORY DATA STORAGE	NSWC, CRANE IN	BEGIN: OCT 96	END: DEC 03	TPCS (UPGRADE) PHASE II	NATIONAL SECURITY AGENCY, FT MEADE, MD	BEGIN: NOV 00	END: MAR 02	JSTARS	MOTOROLA, SCOTTSDALE, AZ	BEGIN: DEC 00	END: DEC 00	TCAC	NAWC WPN, PT MUGU, CA	BEGIN: JAN 97	END: DEC 03	TRSS	L3 COMM	BEGIN: MAR 99	END: SEP 99
MOD	INSTALLING AGENT	INSTALLATION																																										
TERPES	NAWC WPNS PT MUGU, CA	BEGIN: JAN 98	END: MAR 03																																									
IAS MOD MEMORY DATA STORAGE	NSWC, CRANE IN	BEGIN: OCT 96	END: DEC 03																																									
TPCS (UPGRADE) PHASE II	NATIONAL SECURITY AGENCY, FT MEADE, MD	BEGIN: NOV 00	END: MAR 02																																									
JSTARS	MOTOROLA, SCOTTSDALE, AZ	BEGIN: DEC 00	END: DEC 00																																									
TCAC	NAWC WPN, PT MUGU, CA	BEGIN: JAN 97	END: DEC 03																																									
TRSS	L3 COMM	BEGIN: MAR 99	END: SEP 99																																									

# Exhibit P-40, Budget Item Justification Sheet

Date:

February 2000

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 021

P-1 Item Nomenclature:

MODIFICATION KITS (INTEL) (P44823)

\*\*\*Note: Starting in FY00 procurement of all computer workstations and servers are centrally procured under BLI 463000 (CCR). The following amounts are for this project:

## CCR, BLI 463000 FUNDING FOR TERPES

	QTY/FY00	QTY/FY02	QTY/FY04
Workstations	3/.050	3/.050	3/.050
Servers	1/.056	1/.056	1/.056

## CCR, BLI 463000 FUNDING FOR TPCS UPGRADE

	QTY/FY00	QTY/FY01
Workstations	120/.818	100/.682

## CCR funding BLI 463000 for TCAC

	QTY/FY00	QTY/FY01	QTY/FY02	QTY/FY03
Workstations	7/.048	7/.048	7/.048	5/.034



Date:	February 2000
-------	---------------

February 2000

P-1 Item Nomenclature:

MODIFICATION KITS (INTEL) (P44823)

[illegible]

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 021			P-1 Line Item Nomenclature: MODIFICATION KITS (INTEL) (P44823)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD				FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
TERPES: AN/TSQ-90								3669	5	733800			
Subtotal								3669					
IAS MOD					1655			1397			1430		
Subtotal					1655			1397			1430		
TPCS: TOPMAKER Direction Finding Unit Upgrade								7970	49	162653			
TPCS: TOPMAKER Phase II Upgrade Subsystem								2844	6	474000	2387	5	477400
TPCS: Special Training Devices								126	6	21000	105	5	21000
TPCS: Integrated Logistics Support								197			150		
TPCS: Factory Training								116			166		
TPCS: TAD					24			25			25		
Subtotal					24			11278			2833		
JSTARS Pre Planned Product Improvements								975	2	487500			
JSTARS CFE Hardware					383								
JSTARS GFE Hardware					480								
JSTARS TAD					20								
Subtotal					883			975					
TCAC PIP								790	7	112857	778	7	111143
TCAC Contractor Support								242					
Subtotal								1032			778		
TRSS					2600								
Subtotal					2600								
TOTAL					5162			18351			5041		
Active					4860			18090			4774		
Reserve					302			261			267		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 021				Weapon System Type:			P-1 Line Item Nomenclature: MODIFICATION KITS (INTEL) (P44823)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date	
TERPES: AN/TSQ-90 FY 00	NAWC WPNS PT MUGU CA	FFP	NAWCWPNS PT MUGU CA	Mar-00	Sep-00	5	733800	YES	NO	N/A	
TPCS: TOPMAKER Direction Finding Unit Upgrade FY 00	Boeing-Sunnyvale,Sunnyvale CA	FFP	NSA	Feb-00	Nov-00	49	162653	Yes	N/A	N/A	
TPCS: TOPMAKER Phase II Upgrade Subsystem FY 00	Watkins-Johnson Gaitherburg MD	FFP	NSA	Feb-00	Nov-00	6	474000	Yes	N/A	N/A	
FY 01	Watkins-Johnson Gaitherburg MD	FFP	NSA	Nov-00	Dec-00	5	477400	Yes	N/A	N/A	
TPCS: Special Training Devices FY 00	Watkins-Johnson Gaitherburg MD	FFP	NSA	Feb-00	Nov-00	6	21000	Yes	N/A	N/A	
FY 01	Watkins-Johnson Gaitherburg MD	FFP	NSA	Nov-00	Dec-00	5	21000	Yes	N/A	N/A	
JSTARS Pre Planned Product Improvements FY 00	Motorola, Scottsdale, AZ	FFP	PM JSTARS, Ft Monmouth, NJ	Mar-00	Dec-00	2	487500	YES	NO	N/A	
TCAC PIP FY 00	NAWC, WPNS, Pt. Mugu, CA	C/FP	ESC HANSCOM AFB, MA	Mar-00	Jul-00	7	112857	YES	NO	N/A	
FY 01	NAWC, WPNS, Pt. Mugu, CA	FFP	ESC HANSCOM AFB, MA	Feb-01	Aug-01	7	111143	YES	NO	N/A	
REMARKS:											

INDIVIDUAL MODIFICATION														Date		February 2000					
<b>MODIFICATION TITLE:</b> TPCS 3 <b>MODELS OF SYSTEMS AFFECTED</b> <div style="text-align: center;">TEAM PORTABLE COMMUNICATIONS INTELLIGENCE SYSTEM</div>																					
<b>DESCRIPTION / JUSTIFICATION:</b> <p>TPCS is a semi-automated, man-packable, team transportable signals intelligence system that provides communications intercept, radio direction finding, collection management, analysis and reporting to the Marine Air Ground Task Force (MAGTF) Commander. TPCS is primarily comprised of commercial-off-the-shelf (COTS) and non-developmental items (NDI). The Upgrade will enable TPCS to exploit advanced communications such as cellular formats and low probability of intercept (LP) signals. The Upgrade will also provide advanced automation and conform to the JMCIS/GCCS common operating environment (COE).</p> <p>Installation cost is included in initial procurement of the Kits.</p>																					
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b> <p>NAPDD for TOPMAKER development: Mar 95; MSII - Feb 97; MS III (Phase II) - 4 QTY 99</p> <p>* Two Contracts  ** Special Training Devices Contract</p>																					
<b>Installation Schedule:</b>																					
	Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>Inputs</b>											61				10						
<b>Outputs</b>														15	16	14	13	13			
	FY 2004				FY 2005				FY 2006				FY 2007				To	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete				
<b>Inputs</b>								12				10						93			
<b>Outputs</b>										12				10				93			
<b>METHOD OF IMPLEMENTATION:</b> ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 9 Months Contract Dates: FY 1999 FY 2000 FEB 00* FY 2001 Nov 00 ** Delivery Date: FY 1999 FY 2000 Nov 00 FY 2001 Dec 00																					

INDIVIDUAL MODIFICATION																	Date	Feb-00		
MODIFICATION TITLE (Cont):			TPCS																	
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity					49	7.970													49	07.970
Inst Kits, Nonrecurring					12	2.970	10	2.492					12	2.467	10	2.075			32	10.004
																			12	
Equipment, Nonrecurring																				
ECO																				
Other						0.338		0.341												0.679
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt 55 Kits							61												61	
FY 2001 Eqpt 10 Kits									10										10	
FY 2002 Eqpt -- Kits																				
FY 2003 Eqpt -- Kits																				
FY 2004 Eqpt 12 Kits															12				12	
FY 2005 Eqpt 10 Kits																	10		10	
(FY(TC) Eqpt (xx kits)																				
Installment Cost																			93	
Total Procurement Cost						11.278		2.833						2.467		2.075				18.653

Exhibit P-40, Budget Item Justification Sheet							Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)				P-1 Item Nomenclature: ITEMS UNDER \$5 MILLION INTELL							
Program Elements for Code B Items:			Code:	Other Related Program Elements:							
	Prior Years		FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty											
Gross Cost				2.1	0.4	0.0	0.0	2.2	0.0		4.7
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)				2.1	0.4	0.0	0.0	2.2	0.0		4.7
Initial Spares			0.4		0.4						0.8
Total Proc Cost			0.4	2.1	0.8	0.0	0.0	2.2	0.0		5.5
Flyaway U/C											
Wpn Sys Proc U/C											
<p>This is a roll-up line which contains equipment for which the annual procurement is less than \$5 Million each. The funds included in this budget line allow procurement of the following item. FY 1998 funding is under Items Less Than \$2 Million (475100).</p> <p>Technical Surveillance Countermeasures (TSCM) Program- A performance-level suite of equipment which provides CI/HUMINT Companies with an enhanced capability to detect, locate, identify and neutralize/exploit clandestine audio, radio frequency, laser, infrared, optical and telephonic surveillance threats in and around areas where classified information is viewed and/or discussed. Funds are used to procure TSCM items from an approved item list provided by the national TSCM subcommittee.</p> <p>Meteorological Measuring System - (MMS) The Met Sensor Package (MSP) upgrade for the MMS replaces three separate pieces of manually operated equipment used to gather ground (surface) weather data with a single automated electronic data sensor/collector. The upgrade also includes a SW upgrade that will correct a Y2K deficiency in the current system SW program.</p>											

<b>Exhibit P-40, Budget Item Justification Sheet</b>								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)						P-1 Item Nomenclature: GENERAL PURPOSE MECHANICAL TMDE (P44094)						
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	26.5			4.5	4.7	4.7	2.9	4.6	5.2	6.0	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	26.5			4.5	4.7	4.7	2.9	4.6	5.2	6.0	Cont.	Cont.
Initial Spares												
Total Proc Cost	26.5			4.5	4.7	4.7	2.9	4.6	5.2	6.0	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C												

This is a composite line which consists of several general purpose mechanical test equipment items.

Funds are used to buy mechanical test equipment to support the following principal end items:

Motor Transport: Trucks, High Mobility, Multipurpose Wheeled Vehicle (HMMWV's), Wreckers, Buses, Trailers etc.

Combat Engineers: Bulldozers, Motor Graders, Compactors, Generator Sets, Rock Crushers, Assault Craft, etc.

Ordnance: Tanks, Light Armored Vehicles (LAV's), Assault Amphibious Vehicles (AAV's), Self Propelled Howitzers, Rocket launchers etc.

The test equipment is used by mechanics at all levels of maintenance (e.g. from operator to component rebuild) to restore deadlined items to operational condition. Items procured range from individual mechanic's test sets to diesel engine and transmission dynamometers.

Funding sustains modernization and standardization plans, as well as new equipment identified in support of new principal end items. In some cases, new requirements will supercede planned requirements. The items bought with these funds are non-developmental, commercial-off-the shelf items (consequently extremely low risk). Also, funding is provided for electro-optics testheads which will be integrated with Third Echelons Test Set basic units being purchased in the Automatic Test Equipment budget line.

# Exhibit P-40, Budget Item Justification Sheet

Date:

February 2000

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)

P-1 Item Nomenclature:

NIGHT VISION EQUIPMENT (P44017)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	83.6			23.6	17.4	14.4	22.6	22.5	25.2	0.0		209.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	83.6			23.6	17.4	14.4	22.6	22.5	25.2	0.0		209.3
Initial Spares	0.9			0.1	0.1	0.4	0.0	0.5	0.5	0.0		2.5
Total Proc Cost	84.5			23.7	17.5	14.8	22.6	23.0	25.7	0.0		211.8
Flyaway U/C												
Wpn Sys Proc U/C												

This is a rollup line for Night Vision Equipment consisting of:

MX 11620 - 25mm Gen III Image Intensification Tube (Gen III Tube) - The Gen III tube is a drop-in retrofit for the Gen II image intensification tubes found in the AN/PVS-4 & AN/TVS-5 individual and crew-served weapons sights. The tube provides a much higher level of reliability when compared with the present Gen II tube, and substantially improves resolution and therefore range performance of the system in which it is installed. This is not an end item.

AN/PAQ-4C - The AN/PAQ-4C is used in conjunction with night vision devices (AN/PVS-7 and AN/PVS-14) to direct weapon fire at night. The AN/PAQ-4C attaches to the M16A2 service rifle and projects a continuous infrared beam along the weapons' line of fire designating the point of impact on the target, thereby providing a reference point for target engagement visible only to night vision devices.

MEDIUM POWER LASER ILLUMINATOR (MPLI--formerly known as the INFRARED LASER POINTER). The MPLI is a hand-held infrared laser pointer used in conjunction with image intensified night vision devices, such as the AN/PVS-7B and the AN/AVS-6 Night Vision Goggles, to mark ground targets for night vision capable aircraft crew.

BORELIGHT - The laser Borelight is a rugged projector of visible laser light. The Laser Borelight is used to boresight (align) the Thermal Weapon Sight (TWS) AN/PAS-13, the IRLP, AN/PAQ-4 and other Night Vision devices to the various weapon systems they may attach to. The Laser Borelight enables the boresighting of weapons during daylight, low light and darkness without discharge of the weapon.



<b>Exhibit P-40, Budget Item Justification Sheet</b>		Date:	February 2000
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)		NIGHT VISION EQUIPMENT (P44017)	
<p>THERMAL WEAPON SIGHT - The Thermal Weapon Sight (TWS) is a light weight, low power, high performance forward looking infrared (FLIR) device. TWS will augment existing crew-served night vision sights. TWS operates by discerning the temperature variation between targets and their background. The TWS is completely passive and although designed for target detection and engagement with Marine Corps crew served weapons, can be used for all weather surveillance. Program begins in FY01.</p> <p>MOUNTING BRACKET - The mounting bracket allows the AN/PAQ-4C Infrared Aiming Light to be mounted on the M16A2 when the M203 grenade launcher is installed on the M16A2 rifle.</p> <p>IMPROVED NIGHT / DAY OBSERVATION AND CONTROL DEVICE (INOD--formerly known as SCOUT/SNIPER NIGHT ENHANCEMENT DEVICE). The INOD is a telescopic aiming device that permits precise and accurate delivery of 7.62mm and .50 caliber rifle fire on selected targets during both daylight and total darkness. It will also be capable of distinguishing selected targets at the effective range of the 7.62mm and .50 caliber weapons systems during daylight and total darkness.</p> <p>LASER AIMING MODULE (LAM) - The LAM is used with and without night vision devices (AN/PVS-7 and AN/PVS-14) to direct weapon fire at night. The LAM attaches to the M1911A1 Marine Expeditionary Unit (Special Operations Capable) pistol and the M9 pistol. The LAM projects either a flashlight / visible laser / infrared laser or infrared laser / illuminator along the weapons line of fire designating the target or point of impact on the target, thereby providing a reference point for target engagement in the visible or infrared mode during times of limited visibility.</p> <p>AN/PVS-14 MONOCULAR NIGHT VISION DEVICE (MNVD)- The AN/PVS-14 is a lightweight, monocular night vision device which uses third generation image intensification (I2) technology. The AN/PVS-14 can be carried in the pocket of the utility uniform, mounted on the helmet or head mount, or mounted on a weapon. The AN/PVS-14 will be used by select Marines in leadership roles within the Ground Combat Element (GCE) during night operations. The AN/PVS-14 gives these Marines a lighter, more compact night vision capability than the AN/PVS-7, Night Vision Goggle.</p> <p>AN/PEQ-2A- is a lightweight, self-contained battery powered infrared (IR) aiming light/illuminator that attaches to the upper receiver of a M16A2 service rifle. When zeroed to the weapon and activated, the AN/PEQ-2A projects an IR dot which illuminates the target making it visible to image intensifying night vision devices. The AN/PEQ-2A is a military exempt Class 3B laser.</p>			

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)			P-1 Line Item Nomenclature: NIGHT VISION EQUIPMENT (P44017)			Weapon System Type:			Date: February 2000		
Weapon System Cost Elements	ID CD				FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
MX 11620 (Gen III Tube) Production & Engineering Spt Fee (P&E)	A				17334 95	5547	3125	6747 29	2114	3192			
Borelight Medium Power Laser Illuminator Production & Engineering Spt Fee (P&E)	A A				1000 1282 250	3717 315	269 4070						
Eng & Prgm Support/Logistics					625								
INOD Eng & Prgm Support/Logistics								5309 323	529	10036			
AN/PAS-13 Thermal Weapon Sight Production and Engineering Fee Eng & Prgm Support/Logistics	A										13337 250 764	743	17950
Laser Aiming Module (LAM) Eng & Prgm Support/Logistics	A				2700 300	1800	1500						
AN/PEQ-2A	A							5000	3330	1500			
<b>TOTAL</b>					<b>23586</b>			<b>17408</b>			<b>14351</b>		
<b>Active</b>					<b>23586</b>			<b>17408</b>			<b>14351</b>		
<b>Reserve</b>													

Exhibit P-5a, Budget Procurement History and Planning								Date: February 2000		
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)		Weapon System Type:			P-1 Line Item Nomenclature: NIGHT VISION EQUIPMENT (P44017)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Fiscal Years										
MX 11620 (Gen III Tube) FY 99 FY 00	ITT/Roanoke,VA, Litton/Dallas,TX ITT/Roanoke,VA, Litton/Dallas,TX	C/FFPO C/FFPO	USA CECOM USA CECOM	Apr-99 Apr-00	Jul-00 Jan-01	5547 2114	3125 3192	Yes Yes	N/A N/A	Jul-98 Jul-98
AN/PAQ-4C IR Aim Light FY 98	INSIGHT/ Londonderry, NH	S/FFPO	NSWC CRANE	May-98	Mar-99	VAR	VAR	Yes	N/A	Apr-98
Mounting Brackets FY 98	INSIGHT/ Londonderry, NH	S/FFPO	NSWC CRANE	May-98	Mar-99	VAR	VAR	Yes	N/A	Apr-98
Borelight FY 98 FY 99	INSIGHT/ Londonderry, NH INSIGHT/ Londonderry, NH	C/FFP C/FFPO	NSWC CRANE NSWC CRANE	Apr-99 Feb-00	Oct-99 Jul-00	VAR 3717	VAR 269	Yes Yes	N/A N/A	Jun-98 Sep-99
Medium Power Laser Illuminator (MPLI) FY 98 FY 99 *Note 1	INSIGHT/Londonderry, NH INSIGHT/Londonderry, NH	C/FFPO C/FFPO	NSWC CRANE NSWC CRANE	Oct-98 Jan-00	Mar-99 Jun-00	VAR 315	VAR 4070	Yes Yes	N/A N/A	Apr-98 Apr-98
Improved Night/Day Observation & Control Device FY00 (INOD)	ITT, Roanoke, VA	C/FFPO	PM NV/RSTA, Ft Belvoir	Jul-00	Dec-00	529	10036	NO	N/A	N/A
AN/PAS-13 Thermal Weapon Sight (TWS) FY 01	Raytheon, Dallas, Tx	C/FFPO	PM NV/RSTA, Ft Belvoir	Oct-00	Aug-01	743	17950	Yes	N/A	Sep-97
Laser Aiming Module (LAM) FY 99 *Note 2	Unknown	C/FFP	MCSC, Quantico, VA.	Sep-00	Feb-01	1800	1500	Yes	N/A	Nov-99
AN/PEQ-2A FY 00	Unknown	C/FFP	MCSC, Qantico, VA	Sep-00	Feb-01	3330	1500	Yes	N/A	Jun-00
REMARKS:      Note 1. Medium Power Laser Illuminator Acquisition Objective is pending. Note 2. Laser Aiming Module Acquisition Objective To Be Determined.										









<b>Exhibit P-20, Requirements Study</b>				Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)				Date: February 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): NIGHT VISION EQUIPMENT Medium Power Laser Illuminator				Admin Leadtime (after Oct 1): 15 Months				Prod Leadtime: 5 Months		
Line Descriptions				FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary				315						
Unit Cost				4.1						
Total Cost				1282.0						
Asset Dynamics										
Beginning Asset Position					260	470	630	630	630	630
Deliveries from: FY 1999 Funding					155	160				
Deliveries from: FY 2000 Funding										
Deliveries from: FY 2001 Funding										
Deliveries from Subsequent Years Funds										
Other Gains from FY98 funding				260	55					
Combat Losses										
Training Losses										
Test Losses										
Other Losses										
Disposals/Retirements/Attritions										
End of Year Asset Position				260	470	630	630	630	630	630
Inventory Objective or Current Authorized Allowance										
Inventory Objective 315		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement		Aircraft: TOAI
Assets Rqd for Combat Loads:		thru FY XXXX		thru FY XXXX		thru FY XXXX		FY 2000		PAA: TAI
WRM Rqmt:		FY XXXX		FY XXXX		FY XXXX		FY 2001		Attrition Res
Pipeline:		FY XXXX		FY XXXX		FY XXXX		Augment		BAI
Other:		FY XXXX		FY XXXX		FY XXXX				Inactive Inv
Total:										Storage
<b>Remarks:</b> (MPLI Inventory Objective is in process of being increased.)										







<b>Exhibit P-20, Requirements Study</b>				Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)				Date: February 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): NIGHT VISION EQUIPMENT                      Laser Aiming Module				Admin Leadtime (after Oct 1): 23 Months				Prod Leadtime: 4 Months		
Line Descriptions				FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary				1800						
Unit Cost				1.5						
Total Cost				2700.0						
Asset Dynamics										
Beginning Asset Position							1200	1800	1800	1800
Deliveries from:        FY 1999    Funding						1200	600			
Deliveries from:        FY 2000    Funding										
Deliveries from:        FY 2001    Funding										
Deliveries from Subsequent Years Funds										
Other Gains    from FY98 funding										
Combat Losses										
Training Losses										
Test Losses										
Other Losses										
Disposals/Retirements/Attritions										
End of Year Asset Position						1200	1800	1800	1800	1800
Inventory Objective or Current Authorized Allowance										
Inventory Objective		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement		Aircraft: TOAI
TBD										
Assets Rqd for Combat Loads:		thru FY XXXX		thru FY XXXX		thru FY XXXX		FY 2000		PAA: TAI
WRM Rqmt:		FY XXXX		FY XXXX		FY XXXX		FY 2001		Attrition Res
Pipeline:		FY XXXX		FY XXXX		FY XXXX		Augment		BAI
Other:		FY XXXX		FY XXXX		FY XXXX				Inactive Inv
Total:										Storage
<b>Remarks:</b> Laser Aiming Module Inventory Objective is in process of being Approved.										

<b>Exhibit P-20, Requirements Study</b>				Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)				Date: February 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): NIGHT VISION EQUIPMENT AN/PEQ-2A				Admin Leadtime (after Oct 1): 11 Months				Prod Leadtime: 5 Months		
Line Descriptions				FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary					3330					
Unit Cost					1.5					
Total Cost					5000					
Asset Dynamics										
Beginning Asset Position							2216	3330	3330	3330
Deliveries from: FY 1999 Funding										
Deliveries from: FY 2000 Funding						2216	1114			
Deliveries from: FY 2001 Funding										
Deliveries from Subsequent Years Funds										
Other Gains from FY98 funding										
Combat Losses										
Training Losses										
Test Losses										
Other Losses										
Disposals/Retirements/Attritions										
End of Year Asset Position						2216	3330	3330	3330	3330
Inventory Objective or Current Authorized Allowance										
Inventory Objective		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement		Aircraft: TOAI
TBD										
Assets Rqd for Combat Loads:		thru FY XXXX		thru FY XXXX		thru FY XXXX		FY 2000		PAA: TAI
WRM Rqmt:		FY XXXX		FY XXXX		FY XXXX		FY 2001		Attrition Res
Pipeline:		FY XXXX		FY XXXX		FY XXXX		Augment		BAI
Other:		FY XXXX		FY XXXX		FY XXXX				Inactive Inv
Total:										Storage
<b>Remarks:</b> Laser Aiming Module Inventory Objective is in process of being Approved.										

[illegible]





Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)								P-1 Item Nomenclature: ITEMS UNDER \$5 MILLION (COMM & ELEC)				
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost					11.1	8.3	6.8	10.2	9.4	5.5		51.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				0.0	11.1	8.3	6.8	10.2	9.4	5.5		51.3
Initial Spares												
Total Proc Cost					11.1	8.3	6.8	10.2	9.4	5.5		51.3
Flyaway U/C												
Wpn Sys Proc U/C												
<p>This is a roll-up line which contains many different and unrelated items of equipment for which the annual procurement is less than \$5 Million each. The funds included in this budget line allow procurement of the following items. In FY 1998 and FY 1999, the programs below are under Items Less Than \$2 Million.</p> <p>Joint Communications Support Element (JCSE) (463700) - this effort funds the Marine Corps share of efforts to keep the JCSE equipped with the latest state-of-the-art equipment to accomplish its Joint Staff Mission.</p> <p>ADCP PIP (463700) - is a shelterized HMMWV mounted system that contains the necessary computer workstations and communications equipment to conduct air defense command, control, and communications operations.</p> <p>Expeditionary Air Defense Systems (EADS) (CWAR) (463700) - system provides a lightweight, mobile and flexible target acquisition, and target cueing system, to the Marine Air Control Squadrons (MACS) platforms.</p> <p>Power Supply Equipment (463900) - provides direct current (DC) voltage from an alternating current (AC) power source. This enables communication equipment to operate without batteries.</p> <p>Tools, Sets, Kits &amp; Chests (TSK&amp;C) (463900) - provides general purpose tools and support items used to support the installation, operation, and maintenance of weapon systems.</p> <p>Calibration Equipment (463900) - provides calibration equipment and materials required to calibrate, align, and maintain all Marine Corps test equipment, gauges, survey Instruments, etc.</p> <p>AN/TPQ-46 False Location Radar Mod (468300) - currently funds an effort to reduce false locations.</p> <p>AN/TPQ-46 Currently funds completion of the AN/TPQ-46/46A upgrade effort.</p> <p>Night Vision Mod Line (493100) - Gen III tubes is a drop-in retrofit for the Gen II image intensification tubes found in the AN/PVS-7; Bioculars - device designed for use with the AN/TVS-5 (Night Vision Crew Served Weapon Sight); Light Interference Filter (LIF) - designed to go over the outside lens that protects the operator from incoming laser beams; and Retroreflection Defeating Filters - designed to go over the outside lens of both the AN/PVS-4 (Night Vision Individual Served Weapon Sight) and AN/TVS-5 (Night Vision Crew Served Weapon Sight).</p> <p>Computer Assisted Logistics and Test Equipment Calibration System (CALTECS) (463900) - provides computer controlled calibration software and hardware to automate the tracking, repair, and calibration of test equipment.</p> <p>Environmental Stabilization System (ESS) - ESS is a maintenance technology and readiness enhancement initiative which provides both a fully automated operational and long term preservation environment for the systems, equipment and materials associated with the Survey, Meteorological, and Counterfire Radar Sections of Marine Artillery Regiments. Smart work initiatives have been budgeted designed to reduce operational support costs.</p>												



Exhibit P-40a, Budget Item Justification for Aggregated Items									Date: February 2000				
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)							P-1 Item Nomenclature: ITEMS UNDER \$5 MILLION (COMM & ELEC)						
Procurement Items	Code	UOM	Prior Years	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Joint Communications Support Element (JCSE)	A	D		0.0	0.0	0.3	0.3	0.3	0.4	0.4	0.4		2.1
		Q											
ADCP PIP	A	D		0.0	0.0	0.3	0.3	0.1	0.1	0.1	0.0		0.9
		Q											
Expeditionary Air Defense Systems (EADS) (CWAR)	A	D		0.0	0.0	1.5	1.5	1.6	1.6	0.0	0.0		6.2
		Q											
Power Supply Equipment	A	D		0.0	0.0	2.0	1.9	0.0	0.0	0.0	0.0		3.9
		Q											
Tools, Sets, Kits & Chests (TSK&C)	A	D		0.0	0.0	0.7	0.7	1.0	3.1	5.0	1.1		11.6
		Q											
Calibration Equipment	A	D		0.0	0.0	2.1	2.1	2.2	2.2	2.3	2.3		13.2
		Q											
AN/TPQ-46 False Location Radar Mod	A	D		0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0		1.3
		Q											
AN/TPQ-46/46A	A	D		0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0		0.9
		Q											
Night Vision Mod Line	A	D		0.0	0.0	1.5	1.5	1.6	1.6	1.7	1.7		9.6
		Q											
CALTECS	A	D		0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0		0.9
		Q											
Environmental Stabilization System	A	D		0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0		1.0
		Q											

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)						P-1 Item Nomenclature: COMMON COMPUTER RESOURCES (P478XX)						
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost					104.1	80.7	45.1	43.6	41.3	47.7	CONT	CONT
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					104.1	80.7	45.1	43.6	41.3	47.7	CONT	CONT
Initial Spares												
Total Proc Cost					104.1	80.7	45.1	43.6	41.3	47.7	CONT	CONT
Flyaway U/C												
Wpn Sys Proc U/C												
<p>This is a roll-up line supporting the Common Computer Resources (CCR) which contains the Marine Corps Common Hardware Client Workstations, and Marine Corps Common Hardware File/Application Servers.</p> <p>The Marine Corps Common Hardware Client Workstations and File/Application Servers Programs implement approved recommendations of the Unified MAGTF C4I IPT and supports the Marine Corps Master Plan R.7. which calls for "A robust command and control/Information infrastructure, extending the defense information infrastructure to meet Marine Corps deployed and garrison information requirements ... Develop a computing ..... infrastructure capable of supporting both joint and service level national security systems and automated information systems....". Marine Corps Common Hardware File/Application Servers and Client Workstations Programs provide a refreshed and modernized Information Technology Infrastructure with a multi-level capability for user/applications. The multi-level approach includes a minimum of three basic technology ranges of varying capability from high, medium and low-end platforms that provide file and applications support for UNIX (RISC) and Intel (CISC) Base applications. Within each of the basic ranges there are specific capabilities such as the physical configuration (i.e. laptop), the level of ruggedization, the amount of RAM, the number and size of the hard drives, specific multimedia support, etc., that further configures a machine to meet a specific requirement. These options are currently available via the Marine Buyers Guide for procurement under numerous existing contract vehicles. Also included is a centralized infrastructure that will provide an enterprise approach to asset tracking, warranty maintenance and helpdesk functions. Common Computer Resources (CCR) provides a single procurement and management vehicle for Workstations and Servers for all Tactical and Non-Tactical C4I programs and ensures that each program fits within the framework architecture. Varied common computer resources are required to meet program specific functional applications and ruggedization.</p> <p>*Integrated Logistics Support (ILS) for both Workstations and Servers is centrally managed by the Program Manager and not divided between the two sub-projects. ILS is a centrally managed Marine Corps-wide approach to manage and support the workstation and field application server assets from an "enterprise perspective".</p>												

Date: February 2000

February 2000

[illegible]

Procurement, Marine Corps / Communications and Electronic Equipment

P-1 Item Nomenclature:

COMMON COMPUTER RESOURCES (P478XX)

[illegible]

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)			P-1 Line Item Nomenclature: COMMON COMPUTER RESOURCES (P478XX)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
MCHS WORKSTATIONS								70372			48730		
MCHS SERVERS								28836			27312		
ILS								4907			4614		
<b>TOTAL</b>								<b>104115</b>			<b>80656</b>		
<b>Active</b>								<b>103566</b>			<b>80105</b>		
<b>Reserve</b>								<b>549</b>			<b>551</b>		

# Exhibit P-40, Budget Item Justification Sheet

Date:

February 2000

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)

P-1 Item Nomenclature:

MCHS WORKSTATIONS (A478X1)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost					70.4	48.7	24.8	28.4	22.2	27.1	CONT	CONT
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					70.4	48.7	24.8	28.4	22.2	27.1	CONT	CONT
Initial Spares												
Total Proc Cost					70.4	48.7	24.8	28.4	22.2	27.1	CONT	CONT
Flyaway U/C												
Wpn Sys Proc U/C												

Marine Corps Common Hardware Client Workstations provide a multi-level capability for user/applications. The multi-level approach includes a minimum of three ranges of varying capability from high, medium and low-end platforms that provide file and applications support for UNIX (RISC) and Intel (CISC) Base applications.

A Client Workstation Infrastructure for all Tactical and Non-Tactical C4I programs. Per the Unified MAGTF C4I IPT "Means changing our viewpoint: From - ensuring that each program can be executed autonomously ... To - ensuring that each program fits within the framework architecture." This is the first stage to a path which provides a Common Marine Corps Information Infrastructure.

The budget profile shown above are based on the individual C4I and non-C4I program AAO requirements and are supported by the centralized modernization initiative. After completing a comprehensive TO/TE review during early 1999, the requirement analysis will shift to one that is based on allowance deficiencies and technological modernization. This future state will eliminate the traditional stovepipe approach to fielding C4I systems and signal a transition to a Marine Corps-wide enterprise approach to network management.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)			P-1 Line Item Nomenclature: MCHS WORKSTATIONS (A478X1)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AFATDS													
Non MCHS RISC (SP) Desktop								6377	97	65742	7100	108	65741
Non MCHS RISC (SP) Laptop								6900	94	73404	6008	82	73268
ATLASS													
CISC Desktop (GP) High								2777	712	3900	1443	370	3900
CISC Laptop (GP) High								3373	496	6800	1836	270	6800
ADCP													
RISC Desktop (GP) Nominal								125	9	13900			
TERPES													
RISC Desktop (GP) High								50	3	16700			
TCO													
CISC Laptop (GP) High											1006	148	6800
DACT													
CISC Laptop (RG) High								12858	1250	10286			
CTAPS													
RISC Desktop (GP) Nominal								3253	234	13902			
IAS													
CISC Laptop (GP) High								278	41	6780	278	41	6780
RISC Desktop (GP) Nominal								1029	74	13905	1029	74	13905
RISC Desktop (GP) High													
GCCS													
CISC Desktop (GP) Nominal								100	40	2500			
TCAC													
CISC Laptop (GP) High								48	7	6857	48	7	6857
TPCS													
CISC Laptop (GP) High								818	120	6816	682	100	6816
<b>SUBTOTAL</b>								<b>37986</b>			<b>19430</b>		

Exhibit P-5. Weapon WPN SYST Cost Analysis			Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)			P-1 Line Item Nomenclature: MCHS WORKSTATIONS (A478X1)			Weapon System Type:			Date: February 2000	
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
DTC													
CISC Laptop (RG) High								500	48	10417			
RISC Desktop (GP) Nominal								250	16	15625			
TPC													
RISC Desktop (GP) Nominal											667	48	13896
CI/HUMINT													
CISC Laptop (RG) High								615	117	5254			
Manpower AIS													
CISC Desktop (GP) Nominal								140	56	2500	190	76	2500
DPRIS													
CISC Desktop (GP) High											273	70	3900
UDMIPS													
CISC Desktop (GP) High								3997	1025	3900			
CISC Laptop (GP) High								2282	336	6792			
MAGTF II Log AIS													
CISC Desktop (GP) Nominal								651	260	2504			
TCAIMS II													
CISC Desktop (GP) Nominal								1280	512	2500	845	338	2500
CISC Laptop (GP) High								2795	411	6800	307	45	6822
Distance Learning													
CISC Desktop (GP) Nominal								450	180	2500	1925	770	2500
CISC Desktop (GP) High								273	26	10500	168	16	10500
PAO													
CISC Desktop (GP) Nominal								25	10	2500	28	11	2500
CISC Laptop (GP) Nominal								77	24	3200	150	47	3200
SUBTOTAL								13335			4553		

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)			P-1 Line Item Nomenclature: MCHS WORKSTATIONS (A478X1)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
JAVELIN CISC Laptop (GP) High								400	59	6780			
TSSE CISC Desktop (GP) High								31	8	3875			
SJA CISC Desktop (GP) Nominal CISC Laptop (GP) Nominal								390 24	195 10	2000 2400	390 24	195 10	2000 2400
TRSS CISC Laptop (GP) High								300	50	6000			
JSIMS CISC Desktop (GP) Nominal CISC Desktop (GP) High											339 46	44 6	7700 7700
MARFORCND CISC Laptop (GP) High								221	32	6906			
Modernization CISC Desktop (GP) Nominal								17685	8843	2000	23948	11974	2000
<b>SUBTOTAL</b>								<b>19051</b>			<b>24747</b>		
<b>TOTAL Active Reserve</b>								<b>70372 69979 393</b>			<b>48730 48338 392</b>		



Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)				Weapon System Type:			P-1 Line Item Nomenclature: MCHS WORKSTATIONS (A478X1)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date	
Workstations FY00 FY01	MCHS BPAs MCHS BPAs	OTHER OTHER	MARCORSYSCOM MARCORSYSCOM	* *	* *	VAR VAR	VAR VAR	NO NO	N/A N/A	N/A N/A	
<b>REMARKS:</b> *All Windows/Windows NT Desktop, Laptop Server acquisitions will be executed utilizing the acquisition vehicles, configuration, and logistics support contained in the Marine Corps Common Hardware Suite Buyer's Guide administered by PM, Common Computer Resources, MARCORSYSCOM.											

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)						P-1 Item Nomenclature: MCHS SERVERS (A478X2)						
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost					28.8	27.3	16.7	12.4	16.3	17.4	CONT	CONT
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					28.8	27.3	16.7	12.4	16.3	17.4	CONT	CONT
Initial Spares												
Total Proc Cost					28.8	27.3	16.7	12.4	16.3	17.4	CONT	CONT
Flyaway U/C												
Wpn Sys Proc U/C												

Marine Corps Common Hardware File/Application Servers provides a multi-level capability for applications. The multi-level approach includes a minimum of three ranges of varying capability from high, medium and low-end platforms file and applications support for UNIX (RISC) and Intel (CISC) Base applications.

A Client Workstation Infrastructure for all Tactical and Non-Tactical C4I programs. Per the Unified MAGTF C4I IPT "Means changing our viewpoint: From - ensuring that each program can be executed autonomously ... To - ensuring that each program fits within the framework architecture." This is the first stage to a path which provides a Common Marine Corps Information Infrastructure.

The budget profile shown above are based on the individual C4I and non-C4I program AAO requirements and are supported by the centralized modernization initiative. After completing a comprehensive TO/TE review during early 1999, the requirement analysis will shift to one that is based on allowance deficiencies and technological modernization. This future state will eliminate the traditional stovepipe approach to fielding C4I systems and signal a transition to a Marine Corps-wide enterprise approach to network management.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 026			P-1 Line Item Nomenclature: MCHS SERVERS (A478X2)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
ATLASS													
Non MCHS RISC (SP)								676	6	112667	225	2	112500
RISC (GP) High								7952	142	56000	4984	89	56000
ADCP													
RISC (GP) High								503	9	55889			
TERPES													
RISC (GP) High								56	1	56000			
GCCS													
RISC (GP) Minimum								608	20	30400			
TPC													
RISC (GP) High											754	16	47125
IAS													
RISC (GP) Minimum								982	32	30687	1459	48	30400
DMS													
CISC (GP) High											4523	223	20282
DISN													
CISC (GP) Medium								5250	600	8750	5250	600	8750
CISC (GP) High								1352	52	26000			
RISC (GP) Minimum								1479	87	17000			
Manpower AIS													
RISC (GP) High								112	2	56000	56	1	56000
SMARTS													
RISC (GP) High								366	4	91500	366	4	91500
TCAIMS II													
CISC (GP) High								1083	54	20056	554	27	20519
Distance Learning													
CISC (GP) Medium								90	3	30000	1410	47	30000
CISC (GP) High								222	3	73900	1478	20	73900
Total Force Structure													
CISC (GP) High											50	1	50000
<b>SUBTOTAL</b>								<b>20731</b>			<b>21109</b>		

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 026			P-1 Line Item Nomenclature: MCHS SERVERS (A478X2)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
TSSE CISC (GP) Minimum								162	8	20250			
SJA CISC (GP) Minimum								18	2	9000	18	2	9000
JSIMS CISC (GP) Medium											440	16	27500
CISC (GP) High											110	4	27500
MARFORCND CISC (GP) High								1479	73	20260			
Modernization CISC (GP) High								6446	317	20334	5635	278	20270
<b>SUBTOTAL</b>								<b>8105</b>			<b>6203</b>		
<b>TOTAL</b>								<b>28836</b>			<b>27312</b>		
<b>Active</b>								<b>28680</b>			<b>27153</b>		
<b>Reserve</b>								<b>156</b>			<b>159</b>		

Exhibit P-5a, Budget Procurement History and Planning									Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)			Weapon System Type:			P-1 Line Item Nomenclature: MCHS SERVERS (A478X2)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
MCHS SERVERS FY00 FY01	MCHS BPAs MCHS BPAs	OTHER OTHER	MARCORSYSCOM MARCORSYSCOM	* *	* *	VAR VAR	VAR VAR	NO NO	N/A N/A	N/A N/A
<b>REMARKS:</b> *All Windows/Windows NT Desktop, Laptop Server acquisitions will be executed utilizing the acquisition vehicles, configuration, and logistics support contained in the Marine Corps Common Hardware Suite Buyer's Guide administered by PM, Common Computer Resources, MARCORSYSCOM.										

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030						P-1 Item Nomenclature: COMMAND POST SYSTEMS (P44404)						
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	23.7			24.1	4.4	9.5	23.0	25.2	50.9	80.9	CONT	CONT
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	23.7			24.1	4.4	9.5	23.0	25.2	50.9	80.9	CONT	CONT
Initial Spares	1.7					0.8	0.4	0.3				3.1
Total Proc Cost	25.4			24.1	4.4	10.3	23.4	25.5	50.9	80.9	CONT	CONT
Flyaway U/C												
Wpn Sys Proc U/C												

**THIS IS A ROLLED LINE CONSISTING OF THE FOLLOWING:**

Tactical Combat Operations (TCO) - provides digital mapping, messaging, overlay, and related capabilities to Marine commanders and their staffs at the battalion level and above.

ADPE (GCCS) Global Command and Control System - consists of command and control subsystems which enable the National Command Authorities (NCA), the Joint Staff, and commanders at appropriate levels to direct and control the operation of U.S. military forces.

Advance Field Artillery Tactical Data System (AFATDS) - provides digital fire support Command and Control (C2) automation to Marine Air Ground Task Force (MAGTF) Fire Support Coordination Centers, Fire Direction Centers, and Supporting Arms Coordination Centers (afloat).

Unit Operations Center (UOC) - will provide a facility and components for the integration of current and planned battlefield automation systems designed to optimize the positioning, interaction, and flow of information among the various staff agencies (G-2, G-3, Operations Directorate, etc.) and their automated information systems and between the unit and higher, adjacent or subordinate units or headquarters.

JTF Communications - The Joint Enhanced Core Communications System (JECCS) facilitates a robust command and control capability for the Marine Expeditionary Unit (MEU) and for a Marine Expeditionary Force (MEF) Forward headquarters. It provides the Joint Task Force (JTF) Enabler mission requirement for a "first-in" capability that accesses the Defense Information System Agency (DISA) Standard Tactical Entry Point (STEP) services such as NIPRNET, SIPRNET, DSN, VTC, AND AUTODIN.

[illegible]

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030			P-1 Line Item Nomenclature: COMMAND POST SYSTEMS (P44404)			Weapon System Type:			Date: February 2000		
Weapon System Cost Elements	ID CD	FY 99			FY 00			FY 01					
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
TACTICAL COMBAT OPERATIONS	A				2246						1270		
ADPE (GCCS/WMCCS)	A				1787			1300			5320		
AFATDS	A				10104			3052			2917		
JTF COMMUNICATION	B				10000								
<b>TOTAL</b>					<b>24137</b>			<b>4352</b>			<b>9507</b>		
<b>Active</b>					<b>22044</b>			<b>3891</b>			<b>9069</b>		
<b>Reserve</b>					<b>2093</b>			<b>461</b>			<b>438</b>		



Exhibit P-40, Budget Item Justification Sheet								Date: February 2000												
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030						P-1 Item Nomenclature: ADPE (GCCS/WWMCCS) (A44403)														
Program Elements for Code B Items:				Code:	Other Related Program Elements:															
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog								
Proc Qty																				
Gross Cost	4.3			1.8	1.3	5.3	3.4	1.9	2.0	1.9	CONT	CONT								
Less PY Adv Proc																				
Plus CY Adv Proc																				
Net Proc (P-1)	4.3			1.8	1.3	5.3	3.4	1.9	2.0	1.9	CONT	CONT								
Initial Spares																				
Total Proc Cost	4.3			1.8	1.3	5.3	3.4	1.9	2.0	1.9	CONT	CONT								
Flyaway U/C																				
Wpn Sys Proc U/C																				
<p>ADPE (GCCS) Global Command Control System. The Global Command and Control System (GCCS) is a joint mandated Command and Control (C2) Automated Data Processing (ADP) "system-of- systems" which provides a C4I capability for Marine Corps commands and supporting establishments for participation in joint planning and execution. GCCS consists of the following: common hardware; common operating system (OS); common software, i.e. the Defense Information Infrastructure Common Operating Environment (DII COE); and C2 applications. The C2 applications, or segments, can be broken down into the following three groups: (1) joint segments which are developed and maintained by the Defense Information Systems Agency (DISA) under the sponsorship of the Joint Staff; (2) Executive Agent (EA) segments which are developed and maintained by one of the Military Services under the sponsorship of the Joint Staff; and (3) service mission specific (SMS) segments which are developed and maintained by each service under the sponsorship of that service's organization. Joint and EA segments are distributed by DISA via sequential GCCS Software Releases. SMS segments are submitted by each service to DISA for interoperability testing and potential incorporation as joint segments or designation as EA segments. Following satisfactory interoperability testing, SMS segments are distributed by each service at their discretion. Initially, only joint and EA segments have been distributed to Marine Corps Command Posts (CP).</p> <p>***Note: Starting in FY00 procurement of all computer workstations and servers are centrally procured under BLI 463000 (CCR). The following amounts are for this project:</p> <table style="margin-left: 40px;"> <tr> <td></td> <td>FY00</td> </tr> <tr> <td></td> <td>QTY/\$M</td> </tr> <tr> <td>Workstations</td> <td>9/0.125</td> </tr> <tr> <td>Servers</td> <td>9/0.503</td> </tr> </table>														FY00		QTY/\$M	Workstations	9/0.125	Servers	9/0.503
	FY00																			
	QTY/\$M																			
Workstations	9/0.125																			
Servers	9/0.503																			

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030			P-1 Line Item Nomenclature: ADPE (GCCS/WMCCS) (A44403)			Weapon System Type:			Date: February 2000		
Weapon System Cost Elements	ID CD				FY99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
ADPE (GCCS)	A												
PM Support					200			141			464		
Integration & Assembly fielding					1587			1159			4856		
<b>TOTAL</b>					<b>1787</b>			<b>1300</b>			<b>5320</b>		
<b>ACTIVE</b>					<b>1787</b>			<b>1300</b>			<b>5320</b>		
<b>RESERVE</b>													

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)						P-1 Item Nomenclature: MANEUVER C2 SYSTEMS (P44401)						
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	13.9			9.5	6.8	0.0	9.6	6.6				46.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	13.9			9.5	6.8	0.0	9.6	6.6	0.0			46.3
Initial Spares						0.4	0.5	0.3	0.1			1.2
Total Proc Cost	13.9			9.5	6.8	0.4	10.1	6.8	0.1			47.5
Flyaway U/C												
Wpn Sys Proc U/C												
<p>Maneuver C2 is the executive layer of decision support that pulls and fuses information from the functional areas. It provides an integrated representation of the battlespace or a specific area of concern. The systems included in this budget line report unit status and location to the Tactical Combat Operations (TCO) and Advanced Tactical Air Command Control (ATACC). They also disseminate maneuver information throughout the battlespace.</p> <p>This is a rolled line consisting of the following:</p> <p>JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS) - an advanced radio system that provides secure, jam resistant information distribution, position location, and identification capabilities in an integrated form for tactical military operations.</p> <p>DATA AUTOMATED COMMUNICATIONS TERMINAL (DACT) will function as a situational awareness and communications terminal for echelons at and below the Battalion within the Marine Corps. The DACT will receive, store, retrieve, create, modify, transmit, and display map overlays, operational message/reports, and position information via tactical radios, networks, and/or wire lines. A phase approach for fielding the full functionality of the system will be used consisting of software upgrades and enhancements to allow interoperability with other C4I systems.</p>												

Date:	February 2000
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February 2000

P-1 Item Nomenclature:	
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MANEUVER C2 SYSTEMS (P44401)

[illegible]

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)			P-1 Line Item Nomenclature: MANEUVER C2 SYSTEMS (P44401)			Weapon System Type:			Date: February 2000		
Weapon System Cost Elements	ID CD	FY 99			FY 00			FY 01					
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
JTIDS	A				7510								
DACT	B				1956			6789					
TOTAL					9466			6789					
Active					7889			6789					
Reserve					1577								

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000																			
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)						P-1 Item Nomenclature: DACT (A44405)																					
Program Elements for Code B Items: 0206313M				Code: B	Other Related Program Elements:																						
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog															
Proc Qty					1210		1041					2251															
Gross Cost	5.6			2.0	6.8		9.6	6.6				30.5															
Less PY Adv Proc																											
Plus CY Adv Proc																											
Net Proc (P-1)	5.6			2.0	6.8		9.6	6.6	0.0			30.5															
Initial Spares						0.4	0.5	0.3	0.1			1.2															
Total Proc Cost	5.6			2.0	6.8	0.4	10.0	6.8	0.1			31.7															
Flyaway U/C												0.0															
Wpn Sys Proc U/C					0		0					.0															
<p>The Data Automated Communications Terminal (DACT) will function as a situational awareness and communications terminal for echelons at and below the Battalion within the Marine Corps. The DACT will receive, store, retrieve, create, modify, transmit, and display map overlays, operational message/reports, and position information via tactical radios, networks, and/or wire lines. A phased approach for fielding the full functionality of the system will be used consisting of software upgrades and enhancements to allow interoperability with other C4I systems.</p> <p>***Note: Starting in FY00 procurement of all computer workstations and servers are centrally procured under BLI 463000 (CCR). The following amounts are for this project:</p> <table style="margin-left: 40px; border: none;"> <thead> <tr> <th></th> <th>FY00</th> <th>FY01</th> <th>FY02</th> <th>FY03</th> </tr> </thead> <tbody> <tr> <td>Quantity of workstations</td> <td>1250</td> <td>0</td> <td>1261</td> <td>1181</td> </tr> <tr> <td>Total Procurement Cost (\$M)</td> <td>12.9</td> <td>0</td> <td>12.1</td> <td>3.0</td> </tr> </tbody> </table> <p>DT - Sept 97 - Aug 98  IOT&amp;E - Mar 00  MS I/II - Nov 97  MS III - Aug 00</p>														FY00	FY01	FY02	FY03	Quantity of workstations	1250	0	1261	1181	Total Procurement Cost (\$M)	12.9	0	12.1	3.0
	FY00	FY01	FY02	FY03																							
Quantity of workstations	1250	0	1261	1181																							
Total Procurement Cost (\$M)	12.9	0	12.1	3.0																							

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)			P-1 Line Item Nomenclature: DACT (A44405)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 99			FY 00			FY 01					
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Ruggedized Handheld Computer(RHC)					446			2432	1186	2050			
Vehicle Mount Assembly & accessories					900			802					
COTS Equipment								125					
COTS Software Licenses								200					
Support Equipment								2474					
Production Support - Raytheon, Indianapolis					610			450					
Factory Training								276					
Logistics Support								30					
Travel													
<b>TOTAL</b>					<b>1956</b>			<b>6789</b>					
<b>Active</b>					<b>1956</b>			<b>6789</b>					
<b>Reserves</b>													

Exhibit P-5a, Budget Procurement History and Planning									Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)				Weapon System Type:		P-1 Line Item Nomenclature: DACT (A44405)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
(RHC) Vehicle Mount Assembly & Accessories FY 00	Raytheon, Indianapolis, IN	C/TM*/O	MARCORSYSCOM	Sep-00	Jan-01	1186	2050	N/A	N/A	N/A
<b>REMARKS:</b> *TM=Time and Material  Unit cost for vehicle mount assembly includes vehicle cables and unit cost is an estimate.										







<b>Exhibit P-40, Budget Item Justification Sheet</b>								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032						P-1 Item Nomenclature: RADIO SYSTEMS (P44445)						
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	67.7			45.9	96.2	3.1						212.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	67.7			45.9	96.2	3.1	0.0	0.0	0.0	0.0		212.9
Initial Spares	1.6			2.2	4.6	4.5	0.5			0.3		13.7
Total Proc Cost	69.3			48.1	100.8	7.7	0.5			0.3		226.6
Flyaway U/C												
Wpn Sys Proc U/C												
<p>This is a roll-up line which contains the following programs:</p> <p>SINGGARS RADIO - The SINGGARS radio replaces all AN/PRC-77 Manpack, Bancroft, and AN/VRC-12 family of vehicular radios currently in the Marine Corps inventory. The SINGGARS radio is used as the primary means of communication for command control as well as fire support on the battlefield.</p> <p>GROUND MOBILE FORCES (GMF) (STAR-T) - The GMF START-T (Super High Frequency (SHF) Tri-band Advanced Range Extension Terminal) is a tactical satellite terminal that is mounted on a heavy HMMWV. All components will be self contained on a removable pallet and can operate independently of the HMMWV, and each terminal will be interoperable with existing tactical satellite terminals and Tri-Tac equipment.</p> <p>SECURE MOBILE ANTI-JAM RELIABLE TACTICAL TERMINAL (SMART-T) - This terminal operates with MILSTAR compatible communications payloads and transmits an extremely high frequency (EHF) uplink signal and receives a super high frequency (SHF) downlink signal to provide the MAGTF commander with robust, low probability of intercept, jam resistant communications.</p> <p>AN/PSC-5 ENHANCED MANPACK RADIO - A manportable UHF satellite communications (SATCOM) terminal that will provide long range, single channel, communications.</p> <p>STANDARD JOINT TASK FORCE HEADQUARTERS (SJTF HQ) - The purpose is to support the internal and external communication requirements for the Headquarters element of the SFT. The SFT HQ (CSA) provides the STF with a readily deployable, easy to use, redundant communication system utilizing minimum equipment types.</p>												

**Exhibit P-40, Budget Item Justification Sheet**

Date:

February 2000

This is a roll-up line which contains the following programs:

ENHANCE POSITIONING LOCATOR REPORTING SYSTEM (EPLRS) - Will provide Marine Forces with a critical command, control, and situational awareness data distribution network that does not currently exist. Provides robust, seamless, and integrated data distribution that supports numerous MAGTF C4I tactical data systems.

HIGH FREQUENCY (HF) RADIOS - These radios employ advanced technology to provide high-speed data rates, digital voice, automatic link establishment (ALE), frequency hopping, multi-waveform modems (serial tone, 39 tone, and FSK), embedded COMSEC, active squelch, and improved power management.

GLOBAL BROADCAST SERVICE (GBS) TERMINAL - A small lightweight, multi-megabit-per-second receive only Satellite Communications (SATCOM) suite. It will receive and disseminate Global broadcasts of standard products such as UAV Video, Classified and Unclassified intelligence information, weather, theater message traffic, joint and service-unique news, Classified and Unclassified video, and morale welfare and recreation (MWR) programming.

INTRA SQUAD RADIOS (ISR) - The ISR will provide the Marine Infantry Battalion an intra squad communications network. This will enable squads to communicate in tactical situations where hand and arm signals and voice communications are not practical, not possible, or would jeopardize the mission. The ISR will be a voice-only, non-secure means of communications. The radio should transmit and receive on 14 discrete channels in the Military UHF band and provide for 38 Continuous Tone Coded Squelch System (CTCSS) talk-groups per channel. Power output and transmission range is sufficiently low to suit the operational concept and minimize the threat to the system. This capability will be in line with the total force concept and support Fleet Marine Force and Marine Forces Reserve.

Exhibit P-40a, Budget Item Justification for Aggregated Items										Date: February 2000				
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Communications and Electronic Equipment								P-1 Item Nomenclature: RADIO SYSTEMS (P44445)						
Procurement Items	Code	UOM	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
SINCGARS	A	D				7.9	5.0							12.9
		Q												0
GROUND MOBILE FORCES (STAR-T)	B	D				5.2	54.5	1.0						60.7
		Q												0
SMART-T	A	D				18.1	0.6							18.7
		Q												0
AN/PSC-5 ENHANCED MANPACK RADIO	A	D				0.2	3.7							3.9
		Q												0
LANT SJTF HQ	A	D				0.8								0.8
		Q												0
ENHANCE POSITIONING LOCATOR REPORTING SY	A	D				10.7	14.6	1.1						26.4
		Q												0
HIGH FREQUENCY (HF) RADIOS	A	D				0.0	5.8	0.4						6.2
		Q												0
GLOBAL BROADCAST SERVICE	B	D				0.0	12.0	0.7						12.7
		Q												0
INTRA SQUAD RADIO	A	D				3.0								3
		Q												0
														0
														0
														0
														0
														0
														0

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032			P-1 Line Item Nomenclature: RADIO SYSTEMS (P44445)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
SINGARS	A				7913			4978					
GROUND MOBILE FORCES (STAR-T)	B				5193			54469			971		
SMART-T	A				18100			626					
AN/PSC-5 ENHANCED MANPACK RADIO	A				200			3733					
LANT SJTF HQ	A				751								
ENHANCE POSITIONING LOCATOR	A				10716			14586			1079		
HIGH FREQUENCY (HF) RADIOS	A							5813			388		
GLOBAL BROADCASTING SERV (GBS)	B							12011			659		
INTRA SQUAD RADIO	A				3000								
<b>TOTAL</b>					<b>45873</b>			<b>96216</b>			<b>3097</b>		
<b>Active</b>					<b>41478</b>			<b>86521</b>			<b>3097</b>		
<b>Reserve</b>					<b>4395</b>			<b>9695</b>					

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 029								P-1 Item Nomenclature: SINGGARS (A44363)				
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	23987											23987
Gross Cost	198.3			7.9	5.0							211.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	198.3			7.9	5.0	0.0	0.0	0.0	0.0	0.0		211.2
Initial Spares	1.6			1.3	1.0							3.9
Total Proc Cost	199.9			9.2	6.0							215.1
Flyaway U/C												0.0
Wpn Sys Proc U/C	.0											.0
<p>The SINGGARS radio replaces all AN/PRC-77 Manpack, Bancroft, and AN/VRC-12 family of vehicular radios currently in the Marine Corps inventory. The SINGGARS radio is used as the primary means of communication for command and control as well as fire support on the battlefield. SINGGARS is highly reliable with over 1250 hours mean time between failure and the built-in test equipment eases the workload. Frequency hopping capability offers low probability of intercept, while integrated COMSEC deletes the requirement for external communications security equipment.</p> <p>SINGGARS Radios have not been procured beyond FY 1997.</p> <p>Funding in FY 1998 - FY 2000 reflects costs associated with the fielding and support of SINGGARS to include:</p> <p>Installation</p> <p>Prior years Procurement in BLI 451000, SINGGARS.</p>												

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032			P-1 Line Item Nomenclature: SINGGARS (A44363)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
SINGGARS	A												
Ancillary Equipment					449			252					
Installation Kits					280								
Maintenance Support					1351			1093					
Field Service Representatives					1688								
New Equipment Training Teams					2786			3298					
Fielding/Installation by Contractor					1022								
Reliability Award Fee					337			335					
Contracting Support													
<b>TOTAL</b>					<b>7913</b>			<b>4978</b>					
<b>Active</b>					<b>7913</b>			<b>4978</b>					
<b>Reserve</b>													



Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032						P-1 Item Nomenclature: GROUND MOBILE FORCES (STAR-T) (A44245)						
Program Elements for Code B Items: 26313M/C2275*				Code: B		Other Related Program Elements:						
				FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					40							40
Gross Cost				5.2	54.5	1.0						60.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				5.2	54.5	1.0						60.7
Initial Spares						3.9						3.9
Total Proc Cost				5.2	54.5	4.9						64.6
Flyaway U/C												1.5
Wpn Sys Proc U/C					1.4							1.5
<p>The GMF STAR-T (Super High Frequency (SHF) Tri-band Advanced Range Extension Terminal) is a tactical satellite terminal that is mounted on a heavy HMMWV. All components (communications equipment and antenna) will be self contained on a removable pallet and can operate independently of the HMMWV. Each terminal will be interoperable with existing tactical satellite terminals and Tri-Tac equipment. These terminals will also be compatible with the other services. Due to its configuration on one HMMWV, this terminal will provide increased mobility with roll-on, roll-off capability. 15 Light weight, high gain, X-band antennas will be procured to support high data rate (Hub) applications of STAR-T.</p> <p>*Army MS I/III-Jul 94 DT-Oct 97 OT-OCT 99 MC MS III - 3QTR FY00</p>												

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032			P-1 Line Item Nomenclature: GROUND MOBILE FORCES (STAR-T) (A44245)			Weapon System Type:			Date: February 2000		
Weapon System Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
GMF	B				4541	15	302733	52604	40	1315100			
LHGXA Antenna													
SUPPORT:													
Engineering Support					223			660					
Factory/Net Training					50			150					
Travel					20			25					
Fielding								1030			971		
Initial Spares					359								
<b>TOTAL</b>					<b>5193</b>			<b>54469</b>			<b>971</b>		
<b>ACTIVE</b>								<b>46969</b>					
<b>RESERVE</b>								<b>7500</b>					

Exhibit P-5a, Budget Procurement History and Planning									Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032			Weapon System Type:			P-1 Line Item Nomenclature: GROUND MOBILE FORCES (STAR-T) (A44245)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
LHGXA ANTENNAS FY 99	HARRIS	C/FFP	CECOM	Apr-99	Sep-99	15	302733	Yes	No	N/A
GMF FY 00	RAYTHEON	C/FFP	CECOM	Jan-00	Sep-00	40	1315100	Yes	No	N/A
REMARKS:										

<b>Exhibit P-20, Requirements Study</b>			Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 029				Date: February 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): RADIO SYSTEMS (P44445)			Admin Leadtime (after Oct 1): 6 Months				Prod Leadtime: 12 Months		
GMF	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	
Buy Summary			40						
Unit Cost			1361.7						
Total Cost			54469.0						
Asset Dynamics									
Beginning Asset Position				3	40	40	40	40	
Deliveries from: FY 1999 Funding									
Deliveries from: FY 2000 Funding			3	37					
Deliveries from: FY 2001 Funding									
Deliveries from Subsequent Years Funds									
Other Gains									
Combat Losses									
Training Losses									
Test Losses									
Other Losses									
Disposals/Retirements/Attritions									
End of Year Asset Position			3	40	40	40	40	40	
Inventory Objective or Current Authorized Allowance									
Inventory Objective 40	Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement	Aircraft: TOAI	
Assets Rqd for Combat Loads:	98 thru FY XXXX		98 thru FY XXXX		98 thru FY XXXX		FY 2000	PAA: TAI	
WRM Rqmt:	FY XXXX		FY XXXX		FY XXXX		FY 2001	Attrition Res	
Pipeline:	FY XXXX		FY XXXX		FY XXXX		Augment	BAI	
Other:	FY XXXX		FY XXXX		FY XXXX			Inactive Inv	
Total:								Storage	
<b>Remarks:</b> Support costs are included in unit costs.									







<b>Exhibit P-40, Budget Item Justification Sheet</b>								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032						P-1 Item Nomenclature: SMART-T (A44130)						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
				FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				24	1							25
Gross Cost				18.1	0.6							18.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				18.1	0.6							18.7
Initial Spares						0.1						0.1
Total Proc Cost				18.1	0.6	0.1						18.8
Flyaway U/C												0.7
Wpn Sys Proc U/C				.8	.6							.7
<p>The MILSTAR SMART-T is a palletized, transportable, heavy HMMV-mounted tactical satellite communications terminal that operates with MILSTAR compatible communications payloads. SMART-T transmits an extremely high frequency (EHF) uplink signal and receives a super high frequency (SHF) downlink signal to provide the MAGTF commander with robust, low probability of intercept, jam resistant communications. SMART-T provides multi-channel medium and low data rate communications simultaneously. The SMART-T will provide the Marine Corps alignment with the Joint Staff MILSATCOM architecture in the EHF satellite frequency spectrum and provide MAGTF elements with multi-channel internal and external, long haul, critical command and control communications. The SMART-T will meet the Joint requirement for a data/voice satellite communications system that will provide secure, mobile, worldwide, anti-jam, low probability of intercept tactical communications not subject to terrain masking or distance limitations.</p>												



Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032						P-1 Item Nomenclature: AN/PSC-5 ENHANCED MANPACK RADIO (A44131)						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.1			0.2	3.7							4.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.1			0.2	3.7							4.0
Initial Spares				0.9	0.8	0.5						2.2
Total Proc Cost	0.1			1.1	4.5	0.5						6.2
Flyaway U/C												
Wpn Sys Proc U/C												
<p>The AN/PSC-5 is a manportable UHF satellite communications (SATCOM) terminal that will provide long range, single channel, communications. The AN/PSC-5 incorporates the Demand Assigned Multiple Access (DAMA) protocol mandated by the Joint Staff. The AN/PSC-5 provides embedded Communications Security (COMSEC) and encrypted voice and data capabilities, ensuring multi-service interoperability with most existing and planned communications systems. In addition to voice and data, the AN/PSC-5 interfaces facsimile, teletype, NET Radio Interface (NRI), and SINCGARS.</p> <p>FY96 and prior years procurement found in BLI 402700, Manpack Radios &amp; Equipment.</p>												

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032						P-1 Item Nomenclature: LANT SJTF HQ (A44632)						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	2.3			0.8								3.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2.3			0.8								3.1
Initial Spares												
Total Proc Cost	2.3			0.8								3.1
Flyaway U/C												
Wpn Sys Proc U/C												
<p>The purpose of the Standing Task Force Headquarters Communications Systems Architecture (SJTF CSA) is to support the internal and external communication requirements for the Headquarters element of the STF. The STF HQ (CSA) provides the STF with a rapidly deployable, easy to use, redundant communication system utilizing minimum equipment types. It provides the STF with Multichannel SatCom; Single Channel Tactical Satellite Systems (TACSAT); Multichannel Line of Sight (LOS); Single Channel LOS; voice, data and message switching; and Technical Control capabilities.</p>												

<b>Exhibit P-40, Budget Item Justification Sheet</b>								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032						P-1 Item Nomenclature: ENHANCED POSITIONING LOCATOR REPORTING SY (A44633)						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	18.5			10.7	14.6	1.1						44.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	18.5			10.7	14.6	1.1						44.9
Initial Spares				0.0	1.1		0.5			0.3		1.9
Total Proc Cost	18.5			10.7	15.7	1.1	0.5			0.3		46.8
Flyaway U/C												
Wpn Sys Proc U/C												
<p>The Enhanced Position Location Reporting System (EPLRS) will provide Marine Forces with a critical command, control, and situational awareness data distribution network that does not currently exist. EPLRS provides robust, seamless, and integrated data distribution that supports numerous MAGTF C4I tactical data systems. The system will be fielded to infantry, artillery, light armored vehicle (LAV), tank, and mobile command units. EPLRS will be the primary entry node for sensor collected information from forward deployed units for transmission to higher headquarters; this type of connectivity is not currently available. The EPLRS system is being fielded to the U.S. Army as their tactical data distribution network, thus, data connectivity between Army and Marine Forces will be made easier when operating in a Joint environment. The U.S. Navy is employing EPLRS as part of it's KSG-1 program. This functionality will support Marine Forces during amphibious operations. The Air National Guard is employing EPLRS in all their Block III F-16's for data and situational awareness distribution.</p> <p>The primary EPLRS system components are a Net Control Station (NCS) and Enhanced PLRS User Units (EPU). The NCS provides control, timing, monitor and crptographic variable generation and update for the EPLRS network.</p> <p>US Army Milestone III: Feb 97 US Army contract award: Dec 97</p>												

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032			P-1 Line Item Nomenclature: ENHANCED POSITIONING LOCATOR REPORTING SYSTEM (A44633)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$'OOO	Each	\$	\$'OOO	Each	\$	\$'OOO	Each	\$	\$'OOO	Each	\$
EPLRS RADIO													
EPLRS Net Control Station					3520	8	440000						
EPLRS Radio Sets					1690	66	25606	6750	300	22500			
EPLRS Upgrade Kits								4202	764	5500			
Travel					75			75			58		
Program Support					490			648			200		
Fielding								760			340		
New Equipment Training					210			710			456		
Manuals and Instructions					465			400			25		
Integrated Logistics Support					225								
EPLRS Ancillaries					2091			626					
Installation Kits					1400			300					
Special Purpose Test Equipment					550			115					
<b>TOTAL</b>					<b>10716</b>			<b>14586</b>			<b>1079</b>		
<b>ACTIVE</b>					<b>9616</b>			<b>14586</b>			<b>1079</b>		
<b>RESERVE</b>					<b>1100</b>								

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032				Weapon System Type:		P-1 Line Item Nomenclature: EPLRS RADIO (A44633)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date	
FY99 EPLRS RADIO SETS EPLRS NET CONTROL STATION	RAYTHEON FOREST, MI. RAYTHEON FOREST, MI.	FFP FFP	CECOM FT MONMONTH CECOM FT MONMONTH	May-99 May-99	Oct-00 Jun-00	66 8	25606 440000	YES YES	YES YES	N/A NA	
FY 00 EPLRS RADIO SETS	RAYTHEON FOREST MI	FFP	CECOM FT MONMONTH	May-00	Oct-00	300	22500	YES	YES	N/A	
REMARKS:											

<b>Exhibit P-20, Requirements Study</b>		Appropriation/Budget Activity/Serial No: ENHANCED POSITION LOCATION REPORTING SYSTEM (A44633)				Date: February 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): RADIO SYSTEMS (P44445)		Admin Leadtime (after Oct 1): 3 Months				Prod Leadtime: 12 Months		
EPLRS NET CONTROLS STATION	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary		8						
Unit Cost		440.0						
Total Cost		3520.0						
Asset Dynamics								
Beginning Asset Position	2	2	2	8	10	10	10	10
Deliveries from: FY 1999 Funding			6	2				
Deliveries from: FY 2000 Funding								
Deliveries from: FY 2001 Funding								
Deliveries from Subsequent Years Funds								
Other Gains								
Combat Losses								
Training Losses								
Test Losses								
Other Losses								
Disposals/Retirements/Attritions								
End of Year Asset Position	2	2	8	10	10	10	10	10
Inventory Objective or Current Authorized Allowance								
Inventory Objective 10	Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement	Aircraft: TOAI
Assets Rqd for Combat Loads:	98 thru FY XXXX		98 thru FY XXXX		98 thru FY XXXX		FY 2000	PAA: TAI
WRM Rqmt:	FY XXXX		FY XXXX		FY XXXX		FY 2001	Attrition Res
Pipeline:	FY XXXX		FY XXXX		FY XXXX		Augment	BAI
Other:	FY XXXX		FY XXXX		FY XXXX			Inactive Inv
Total:								Storage
<b>Remarks:</b> TOTAL COST DOES NOT INCLUDE SUPPORT COST.								

<b>Exhibit P-20, Requirements Study</b>			Appropriation/Budget Activity/Serial No: ENHANCED POSITIONS LOCATION REPORTING SYSTEM (A44633)				Date: February 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): RADIO SYSTEMS (P44445)			Admin Leadtime (after Oct 1): 3 Months				Prod Leadtime: 12 Months		
EPLRS RADIO SETS		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary			66	300					
Unit Cost			25.6	22.5					
Total Cost			1690.0	6750.0					
Asset Dynamics									
Beginning Asset Position				764	764	1130	1130	1130	1130
Deliveries from: FY 1999 Funding					66				
Deliveries from: FY 2000 Funding					300				
Deliveries from: FY 2001 Funding									
Deliveries from Subsequent Years Funds									
Other Gains									
Combat Losses									
Training Losses									
Test Losses									
Other Losses									
Disposals/Retirements/Attritions									
End of Year Asset Position				764	1130	1130	1130	1130	1130
Inventory Objective or Current Authorized Allowance									
Inventory Objective 1187		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement	Aircraft: TOAI
Assets Rqd for Combat Loads:		98 thru FY XXXX		98 thru FY XXXX		98 thru FY XXXX		FY 2000	PAA: TAI
WRM Rqmt:		FY XXXX		FY XXXX		FY XXXX		FY 2001	Attrition Res
Pipeline:		FY XXXX		FY XXXX		FY XXXX		Augment	BAI
Other:		FY XXXX		FY XXXX		FY XXXX			Inactive Inv
Total:									Storage
<b>Remarks:</b> TOTAL COST DOES NOT INCLUDE SUPPORT COST.									









<b>Exhibit P-40, Budget Item Justification Sheet</b>								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032						P-1 Item Nomenclature: HIGH FREQUENCY (HF) RADIOS (A48XXX)						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
				FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					306							306
Gross Cost					5.8	0.4						6.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					5.8	0.4						6.2
Initial Spares												
Total Proc Cost					5.8	0.4						6.2
Flyaway U/C												
Wpn Sys Proc U/C												
<p>Manpack (HF) radios utilize the 1.6 MHz to 29.999 MHz electromagnetic spectrum. These radios employ advanced technology to provide high-speed data rates, digital voice, automatic link establishment (ALE), frequency hopping, multi-waveform modems (serial tone, 39 tone, and FSK), embedded COMSEC, active squelch, and improved power management. Current long haul capabilities rely on radios that are aged, very heavy and do not provide the capabilities of current HF technology. This radio meets the fundamental requirements of communication through increased reliability, speed, and flexibility over long haul HF single channel radio nets. The automatic link establishment alleviates manpower intensive HF management. The flexibility to communicate in both UHF and VHF ranges provide a dual function capability. The compact and lightweight characteristics are an inherent plus in lightening the load of the combat field radio operator.</p> <p>Note that 46 AN/PRC-138 were procured in FY 98 under Support Equipment.</p>												

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032			P-1 Line Item Nomenclature: HIGH FREQUENCY (HF) RADIOS (A48XXX)			Weapon System Type:			Date: February 2000		
Weapon System Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
High Frequency (HF) Radios								5661	306	18500			
Training								42					
Travel								35			50		
Fielding								75			338		
<b>TOTAL</b>								<b>5813</b>			<b>388</b>		
<b>ACTIVE</b>								<b>5813</b>			<b>388</b>		
<b>RESERVE</b>													

Exhibit P-5a, Budget Procurement History and Planning									Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032				Weapon System Type:		P-1 Line Item Nomenclature: HIGH FREQUENCY (HF) RADIOS (A48XXX)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
High Frequency RADIOS FY 00	HARRIS CORP, ROCHESTER, NY	FFP	SOCOM	Jul-00	Nov-00	306	18500	YES	YES	N/A
REMARKS:										

<b>Exhibit P-20, Requirements Study</b>			Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032				Date: February 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): RADIO SYSTEMS (P44445)                      HF Radios			Admin Leadtime (after Oct 1): 3 Months				Prod Leadtime: 12 Months		
MANPACK HF RADIOS		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary				306					
Unit Cost				18.5					
Total Cost				5813.0					
Asset Dynamics									
Beginning Asset Position		46	46	46	46	352	352	352	352
Deliveries from:            FY 1999    Funding									
Deliveries from:            FY 2000    Funding					306				
Deliveries from:            FY 2001    Funding									
Deliveries from Subsequent Years Funds									
Other Gains									
Combat Losses									
Training Losses									
Test Losses									
Other Losses									
Disposals/Retirements/Attritions									
End of Year Asset Position		46	46	46	352	352	352	352	352
Inventory Objective or Current Authorized Allowance									
Inventory Objective 352		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement	Aircraft: TOAI
Assets Rqd for Combat Loads:		98 thru FY XXXX		98 thru FY XXXX		98 thru FY XXXX		FY 2000	PAA: TAI
WRM Rqmt:		FY XXXX		FY XXXX		FY XXXX		FY 2001	Attrition Res
Pipeline:		FY XXXX		FY XXXX		FY XXXX		Augment	BAI
Other:		FY XXXX		FY XXXX		FY XXXX			Inactive Inv
Total:									Storage
<b>Remarks:</b> 46units were procured in FY 98 under BLI 474700 Intelligence Support Equipment under Portable Radios program.									



Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032						P-1 Item Nomenclature: GLOBAL BROADCAST SERVICE TERMINAL						
Program Elements for Code B Items:				Code: B	Other Related Program Elements:							
				FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					79							79
Gross Cost					12.0	0.7						12.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					12.0	0.7						12.7
Initial Spares												
Total Proc Cost					12.0	0.7						12.7
Flyaway U/C												
Wpn Sys Proc U/C												

The GBS Receive Suite is a small, lightweight, multi-megabit-per-second receive only Satellite Communications (SATCOM) suite. The GBS Receive Suite will receive and disseminate Global broadcasts of standard products such as UAV Video, Classified and Unclassified intelligence information, weather, theater message traffic, joint and service-unique news, Classified and Unclassified video, and morale welfare and recreation (MWR) programming. The suite will consist of a SATCOM receiver, Router, Crypto, low end processor, cabling, 18" SATCOM antenna, and Transportation Cases. The GBS Receive Suite will come in two versions; a Transportable Ground Receive Suite (TGRs) and a Fixed Ground Receive Suite (FGRS). The TGRS will be packaged in transport cases and will have the ability to be quickly transported and set-up to operate in a tactical environment. The program is a joint program with the U.S. Air Force as the lead service.



Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 029			P-1 Line Item Nomenclature: GLOBAL BROADCAST SERVICE TERMINAL			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Global Braodcast Service Terminal (GBS)								11935	79	151076			
Fielding											456		
Training											58		
TAD								10			20		
Program Support								66			125		
Total								12011			659		
Active								10442			659		
Reserve								1569					

Exhibit P-5a, Budget Procurement History and Planning									Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032				Weapon System Type:		P-1 Line Item Nomenclature: GLOBAL BROADCAST SERVICE TERMINAL				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Global Broadcast Service Terminal FY00	Raytheon El Segundo, CA	FFP	Los Angeles AFB	Jan-00	Jan-01	79	151076	Yes	Yes	N/A
REMARKS:										

<b>Exhibit P-20, Requirements Study</b>			Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 032				Date: February 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): RADIO SYSTEMS (P44445)			Admin Leadtime (after Oct 1): 3 Months				Prod Leadtime: 12 Months		
GBS		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary				79					
Unit Cost				152.0					
Total Cost				12011.0					
Asset Dynamics									
Beginning Asset Position						79	79	79	79
Deliveries from: FY 1999 Funding									
Deliveries from: FY 2000 Funding					79				
Deliveries from: FY 2001 Funding									
Deliveries from Subsequent Years Funds									
Other Gains									
Combat Losses									
Training Losses									
Test Losses									
Other Losses									
Disposals/Retirements/Attritions									
End of Year Asset Position					79	79	79	79	79
Inventory Objective or Current Authorized Allowance				0					
Inventory Objective 105		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement	Aircraft: TOAI
Assets Rqd for Combat Loads:		98 thru FY XXXX		98 thru FY XXXX		98 thru FY XXXX		FY 2000	PAA: TAI
WRM Rqmt:		FY XXXX		FY XXXX		FY XXXX		FY 2001	Attrition Res
Pipeline:		FY XXXX		FY XXXX		FY XXXX		Augment	BAI
Other:		FY XXXX		FY XXXX		FY XXXX			Inactive Inv
Total:									Storage
<b>Remarks:</b> Unit cost includes support costs.									



# Exhibit P-40, Budget Item Justification Sheet

Date:

February 2000

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030

P-1 Item Nomenclature:

COMMUNICATIONS SWITCHING AND CONTROL SYS (P44446)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	57.1			62.0	62.0	3.2						184.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	57.1			62.0	62.0	3.2	0.0	0.0	0.0	0.0		184.3
Initial Spares	10.1			0.4		0.1	1.4	1.9	0.3	0.8		15.0
Total Proc Cost	67.2			62.4	62.0	3.3	1.4	1.9	0.3	0.8		199.3
Flyaway U/C												
Wpn Sys Proc U/C												

This is a roll-up line which contains the following programs:

UNIT LEVEL CIRCUIT SWITCH (ULCS) - A family of Tri-Service Tactical Communications digital voice and data equipment consisting of AN/TTC-42 (280 Line), and various digital telephones and multiplexers that provide an automatic telephone capability to the field.

TACTICAL DATA NETWORK (TDN) - Provide the Marine Corps with a complete, integrated data network, forming the communication backbone for Marine Air Ground Task Force (MAGTF) tactical data systems and Defense Mapping System. This system will also provide file transfer services, electronic message handling and routing of digital messages between the Local Area Network (LAN), the circuit switched network, and the single channel radio network.

DIGITAL TECH CONTROL (DTC) - Facilitates the installation, operation, restoration, and management of individual circuits and digital links consisting of many multiplexed circuits. It provides the primary interface between subscriber systems/networks within a local area and long-haul multichannel transmission systems to transport voice, message, data, and imagery traffic.

DEFENSE MESSAGE SYSTEM (DMS) - A DOD-wide program to integrate Automatic Digital Network (AUTODIN) and E-mail into a single, secure DoD message communications system. It will expand writer-to-reader connectivity, support, and message security services.

[illegible]

Date:	February 2000
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Appropriation / Budget Activity
Procurement, Marine Corps (1109) / Communications and Electronic Equipment

<p>P-1 Item Nomenclature:</p> <p>COMMUNICATIONS SWITCHING AND CONTROL SYS (P44446)</p>
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[illegible]

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030			P-1 Line Item Nomenclature: COMMUNICATIONS SWITCHING AND CONTROL SYS (P44446)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD				FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
UNIT LEVEL CIRCUIT SWITCH (ULCS)	A				2943								
TACTICAL DATA NETWORK (TDN)	A				34241			21238					
DIGITAL TECHNICAL CONTROL (DTC)	A				18066			33454					
DEFENSE MESSAGE SYSTEM (DMS)	A				6786			7303			3152		
<b>TOTAL</b>					<b>62036</b>			<b>61995</b>			<b>3152</b>		
<b>ACTIVE</b>					<b>55210</b>			<b>48195</b>			<b>2925</b>		
<b>RESERVE</b>					<b>6826</b>			<b>13800</b>			<b>227</b>		

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030						P-1 Item Nomenclature: TACTICAL DATA NETWORK (TDN) (A44239)						
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	8 199			10 228	13 20							
Gross Cost	24.7			34.2	21.2							80.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	24.7			34.2	21.2	0.0	0.0	0.0	0.0	0.0		80.2
Initial Spares							1.3	1.9	0.3	0.8		4.2
Total Proc Cost	24.7			34.2	21.2		1.3	1.9	0.3	0.8		84.4
Flyaway U/C												
Wpn Sys Proc U/C												
<p>The Tactical Data Network (TDN) will provide the Marine Corps with a complete, integrated data network, forming the communication backbone for Marine Air Ground Task Force (MAGTF) tactical data systems and Defense Mapping System. The TDN consists of two major components: the TDN Gateway and the TDN Server. Both will provide file transfer services, electronic message handling and routing of digital messages between the Local Area Network (LAN), the circuit switched network, and the single channel radio network. In addition, the TDN Gateways will be in an S-788 shelter, mounted on a H-HMMWV for mobility. It will be fielded to the Marine Expeditionary Forces (MEF) headquarters and to the Major Subordinate Commands (MSC's). The TDN Server will be in transit cases and will be man portable. It will be fielded down to the battalion/squadron level.</p>												



Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030			P-1 Line Item Nomenclature: TACTICAL DATA NETWORK (TDN) (A44239)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 99			FY 00			FY 01					
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
TDN GATEWAY/SHELTER	A				4279	10	427900	5562	13	427846			
TDN SERVER	A				17014	228	74623	1492	20	74600			
Contractor Support					591			594					
Factory Training (I&KP)					525			368					
Technical Manuals					750								
Logistics Support					1407			732					
Travel					250			250					
ECP's*					8925			11040					
Certification								700					
Fielding Support (Depot)					500			500					
<b>TOTAL</b>					<b>34241</b>			<b>21238</b>					
<b>Active</b>					<b>27415</b>			<b>18890</b>					
<b>Reserve</b>					<b>6826</b>			<b>2348</b>					
Gateways					856	2		856	2				
Servers					5970	80		1492	20				
* ECPs FY00 funds of \$11,040 finances the FY01 effort.													

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030										February 2000
Weapon System Type:				P-1 Line Item Nomenclature: TACTICAL DATA NETWORK (TDN) (A44239)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
TDN GATEWAY/SHELTER										
FY 98	GTE, TAUNTON, MASS	C/FFP	MARCORSYSCOM CTQ	Jan-99	Apr-00	8	427900	Y	Oct 98	Jun-98
FY 99	GTE, TAUNTON, MASS	C/FFP	MARCORSYSCOM CTQ	Jan-99	Aug-00	10	427900	Y	Oct 98	Jun-98
FY 00	GTE, TAUNTON, MASS	C/FFP	MARCORSYSCOM CTQ	Oct-99	Jan-01	13	427846	Y	Oct 98	Jun-98
TDN SERVER										
FY 98	GTE, TAUNTON, MASS	C/FFP	MARCORSYSCOM CTQ	Jan-99	Apr-00	199	74623	Y	Oct 98	Jun-98
FY 99	GTE, TAUNTON, MASS	C/FFP	MARCORSYSCOM CTQ	Jan-99	Jan-01	228	74623	Y	Oct 98	Jun-98
FY 00	GTE, TAUNTON, MASS	C/FFP	MARCORSYSCOM CTQ	Oct-99	Jan-02	20	74600	Y	Oct 98	Jun-98
REMARKS:										

<b>Exhibit P-20, Requirements Study</b>			Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030				Date: February 2000			
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): COMMUNICATIONS SWITCHING AND CONTROL SYSTEMS (P44446)			Admin Leadtime (after Oct 1): 3 Months				Prod Leadtime: 15 Months			
TDN GATEWAY/SHELTER			FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary				10	13					
Unit Cost				3424.1	1633.7					
Total Cost				34241.0	21238.0					
Asset Dynamics										
Beginning Asset Position						12	31	31	31	31
Deliveries from: FY 1999 Funding					4	6				
Deliveries from: FY 2000 Funding						13				
Deliveries from: FY 2001 Funding										
Deliveries from Subsequent Years Funds										
Other Gains FY 1998 Funding					8					
Combat Losses										
Training Losses										
Test Losses										
Other Losses										
Disposals/Retirements/Attritions										
End of Year Asset Position					12	31	31	31	31	31
Inventory Objective or Current Authorized Allowance										
Inventory Objective 31		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement		Aircraft: TOAI
Assets Rqd for Combat Loads:		98 thru FY XXXX		98 thru FY XXXX		98 thru FY XXXX		FY 2000		PAA: TAI
WRM Rqmt:		FY XXXX		FY XXXX		FY XXXX		FY 2001		Attrition Res
Pipeline:		FY XXXX		FY XXXX		FY XXXX		Augment		BAI
Other:		FY XXXX		FY XXXX		FY XXXX				Inactive Inv
Total:										Storage
<b>Remarks: Total cost includes support costs.</b>										

<b>Exhibit P-20, Requirements Study</b>			Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030				Date: February 2000	
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): COMMUNICATIONS SWITCHING AND CONTROL SYSTEMS (P44446)			Admin Leadtime (after Oct 1): 3 Months				Prod Leadtime: 12 Months	
TDN SERVER	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary		228	20					
Unit Cost		74.6	74.6					
Total Cost		17014.0	1492.0					
Asset Dynamics								
Beginning Asset Position				120	360	447	447	447
Deliveries from: FY 1999 Funding				161	67			
Deliveries from: FY 2000 Funding					20			
Deliveries from: FY 2001 Funding								
Deliveries from Subsequent Years Funds								
Other Gains FY 1998 Funding			120	79				
Combat Losses								
Training Losses								
Test Losses								
Other Losses								
Disposals/Retirements/Attritions								
End of Year Asset Position			120	360	447	447	447	447
Inventory Objective or Current Authorized Allowance								
Inventory Objective 447	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for Replacement	Aircraft: TOAI			
Assets Rqd for Combat Loads:	98 thru FY XXXX	98 thru FY XXXX	98 thru FY XXXX	FY 2000	PAA: TAI			
WRM Rqmt:	FY XXXX	FY XXXX	FY XXXX	FY 2001	Attrition Res			
Pipeline:	FY XXXX	FY XXXX	FY XXXX	Augment	BAI			
Other:	FY XXXX	FY XXXX	FY XXXX		Inactive Inv			
Total:					Storage			
<b>Remarks: Total cost does not include support costs.</b>								







Exhibit P-40, Budget Item Justification Sheet								Date: February 2000										
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030						P-1 Item Nomenclature: DIGITAL TECHNICAL CONTROL (DTC) (A44241)												
Program Elements for Code B Items:				Code: A		Other Related Program Elements:												
	PRIOR YEARS			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog						
Proc Qty	8			9	13							30						
Gross Cost	11.3			18.1	33.5							62.9						
Less PY Adv Proc																		
Plus CY Adv Proc																		
Net Proc (P-1)	11.3			18.1	33.5							62.9						
Initial Spares							0.1	0.1				0.2						
Total Proc Cost	11.3			18.1	33.5		0.1	0.1				63.1						
Flyaway U/C																		
Wpn Sys Proc U/C																		
<p>The Digital Technical Control (DTC) facilitates the installation, operation, restoration, and management of individual circuits and digital links consisting of many multiplexed circuits. It provides the primary interface between subscriber systems/networks within a local area and long-haul multichannel transmission systems to transport voice, message, data, and imagery traffic. It can add, drop and insert digital circuits into multiplexed groups; provide a source of stable timing to connected equipment; condition circuits; and perform analog/digital, 2-wire, and signalling conversions. It contains the monitoring, testing, and patching equipment required by technical controllers to troubleshoot and restore faulty circuits and links.</p> <p>***Note: Starting in FY00 procurement of all computer workstations and servers are centrally procured under BLI 463000 (CCR). Policy is in accordance with CMC-C4I Green Letter No. 5-98 dated 11 JUN 98. The following amounts are for this project:</p> <table style="margin-left: 20px;"> <tr> <td>Workstations</td> <td>FY00</td> </tr> <tr> <td>Qty</td> <td>64</td> </tr> <tr> <td>Amt</td> <td>0.750</td> </tr> </table>													Workstations	FY00	Qty	64	Amt	0.750
Workstations	FY00																	
Qty	64																	
Amt	0.750																	



Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030			P-1 Line Item Nomenclature: DIGITAL TECHNICAL CONTROL (DTC) (A44241)			Weapon System Type:			Date: February 2000		
Weapon System Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
DIGITAL TECHNICAL CONTROL AN/TSQ-XXX	A				15236	9	1692829	21747	13	1672846			
SUPPORT COSTS													
Engineering					598			500					
Logistics Support					675			500					
Factory Training (I&KP)					403								
Technical Manuals					384								
Training (NET)								600					
Certification								450					
Fielding Support								575					
TAD					250			250					
ECP								8312					
Contractor Support					520			520					
<b>TOTAL</b>					<b>18066</b>			<b>33454</b>					
<b>Active</b>					<b>18066</b>			<b>22527</b>					
<b>Reserve</b>								<b>10927</b>					

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030				Weapon System Type:		P-1 Line Item Nomenclature: DIGITAL TECHNICAL CONTROL (DTC) (A44241)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date	
DIGITAL TECHNICAL CONTROL AN/TSQ-XXX	GTE, TAUNTON, MASS	C/FFP	MCSYSCOM	Jan-99	Apr-00	8	1692829	Yes	Oct 98	Jun-98	
FY98	GTE, TAUNTON, MASS	C/FFP	MCSYSCOM	Jan-99	Jun-00	9	1692829	Yes	Oct 98	Jun-98	
FY99	GTE, TAUNTON, MASS	C/FFP	MCSYSCOM	Oct-99	Nov-00	13	1672846	Yes	Oct 98	Jun-98	
FY00											
REMARKS:											

<b>Exhibit P-20, Requirements Study</b>			Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030				Date: February 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): COMMUNICATIONS SWITCHING AND CONTROL SYSTEMS (P44446)			Admin Leadtime (after Oct 1): 3 Months				Prod Leadtime: 15 Months		
DIGITAL TECH CONTROL		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary			9	13					
Unit Cost			2007.3	2631.1					
Total Cost			18066.0	34204.0					
Asset Dynamics									
Beginning Asset Position					15	30	30	30	30
Deliveries from: FY 1999 Funding				7	2				
Deliveries from: FY 2000 Funding					13				
Deliveries from: FY 2001 Funding									
Deliveries from Subsequent Years Funds									
Other Gains FY 1998 Funding				8					
Combat Losses									
Training Losses									
Test Losses									
Other Losses									
Disposals/Retirements/Attritions									
End of Year Asset Position				15	30	30	30	30	30
Inventory Objective or Current Authorized Allowance									
Inventory Objective 30		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement	Aircraft: TOAI
Assets Rqd for Combat Loads:		98 thru FY XXXX		98 thru FY XXXX		98 thru FY XXXX		FY 2000	PAA: TAI
WRM Rqmt:		FY XXXX		FY XXXX		FY XXXX		FY 2001	Attrition Res
Pipeline:		FY XXXX		FY XXXX		FY XXXX		Augment	BAI
Other:		FY XXXX		FY XXXX		FY XXXX			Inactive Inv
Total:									Storage
<b>Remarks:</b>  ***Note: Starting in FY00 total system cost includes funding from BLI 463000 (CCR) in the amounts identified on the P-40 for this project.									



FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: DIGITAL TECHNICAL CONTROL (DTC) (A44241)																												I Date: February 2000	
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00														Fiscal Year 01														L A T E R	
							Calendar Year 00							Calendar Year 01																						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
DIGITAL TECHNICAL CONTROL AN/TSQ-XXX																																				
	1	FY 99	MC	9	0	9									1	2	2	2	2																	
	1	FY 00	MC	13	0	13	A												2	2	2	2	2	2	1											
																					</															

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000																						
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030						P-1 Item Nomenclature: DEFENSE MESSAGE SYSTEM (DMS) (A44402)																								
Program Elements for Code B Items:				Code: A		Other Related Program Elements:																								
	PRIOR YEARS			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog																		
Proc Qty																														
Gross Cost	15.5			6.8	7.3	3.2						32.8																		
Less PY Adv Proc																														
Plus CY Adv Proc																														
Net Proc (P-1)	15.5			6.8	7.3	3.2						32.8																		
Initial Spares						0.1						0.1																		
Total Proc Cost	15.5			6.8	7.3	3.3						32.9																		
Flyaway U/C																														
Wpn Sys Proc U/C																														
<p>DMS is DOD-wide program to integrate Automatic Digital Network (AUTODIN) and E-mail into a single, secure DoD message communications system. DMS will expand writer-to-reader connectivity, support, and message security services. Organizations and individuals will be able to create, edit, send, receive, read, and process organizational and individual messages, secured with end-to-end protection, direct from desktop terminals/personal computers in their workspaces. Essentially, DMS will encompass the Marine Corps' current Banyan E-mail and AUTODIN systems as well as the following additional capabilities:</p> <ul style="list-style-type: none"> <li>** Connectivity to all users in DoD</li> <li>** Secure networking of classification (UNCLASS, SECRET, TS, SIC)</li> <li>** Ability to send organizational messages from the desktop terminals/personal computers in their workspaces.</li> </ul> <p>***Note: Starting in FY00 procurement of all computer workstations and servers are centrally procured under BLI 463000 (CCR). Policy is in accordance with CMC C4I Green Letter No. 5-98 dated 11 Jun 98. The following amounts are for this project:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">FY01</th> <th style="text-align: center;">FY02</th> <th style="text-align: center;">FY03</th> <th style="text-align: center;">FY04</th> <th style="text-align: center;">FY05</th> </tr> </thead> <tbody> <tr> <td>Workstations QTY/\$</td> <td></td> <td></td> <td style="text-align: center;">34/0.085</td> <td></td> <td></td> </tr> <tr> <td>Servers QTY/\$</td> <td style="text-align: center;">223/4.523</td> <td style="text-align: center;">272/5.523</td> <td></td> <td style="text-align: center;">223/4.523</td> <td style="text-align: center;">272/5.523</td> </tr> </tbody> </table>														FY01	FY02	FY03	FY04	FY05	Workstations QTY/\$			34/0.085			Servers QTY/\$	223/4.523	272/5.523		223/4.523	272/5.523
	FY01	FY02	FY03	FY04	FY05																									
Workstations QTY/\$			34/0.085																											
Servers QTY/\$	223/4.523	272/5.523		223/4.523	272/5.523																									

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 030			P-1 Line Item Nomenclature: DEFENSE MESSAGE SYSTEM (DMS) (A44402)			Weapon System Type:			Date: February 2000		
Weapon System Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
DMS					2260			5839			2700		
TRAVEL					50			50			10		
FACTORY TRAINING					700			500			100		
NETWORK INSTALLATION					1160			689			167		
SITE SURVEYS					130			50					
CONTRACTOR SUPPORT					48			175			175		
NETWORK UPGRADE					2438								
<b>TOTAL</b>					<b>6786</b>			<b>7303</b>			<b>3152</b>		
<b>Active</b>					<b>6786</b>			<b>6778</b>			<b>2925</b>		
<b>Reserve</b>								<b>525</b>			<b>227</b>		

<b>Exhibit P-40, Budget Item Justification Sheet</b>								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 031						P-1 Item Nomenclature: COMM/ELEC INFRASTRUCTURE (P44448)						
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	120.2			114.2	118.5*	80.6	13.6	7.0	5.7	6.8	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	120.2			114.2	118.5	80.6	13.6	7.0	5.7	6.8	Cont	Cont
Initial Spares												
Total Proc Cost	120.2			114.2	118.5	80.6	13.6	7.0	5.7	6.8	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												

\* The Funding Level for FY 00 includes a pending reprogramming action that will transfer \$5M to Other Procurement, Navy. This transfer will support USCINCPAC headquarters Command, Control, Communications, Computers, and Intelligence, (C4I) equipment upgrades based at Camp Smith, HI.

The Marine Corps Communication/Electronic Infrastructure Support program is an aggregation of inter-related data processing disciplines. The overall objective is to achieve modernization and increase processing capacity, both of which are required to allow continued operation of existing automated information systems and the implementation of new corporate information management (CIM) automated information systems (AIS) to support all functional areas. The Marine Corps has a continuing need to upgrade its computer equipment and system software by replacement or augmentation in order to keep pace with user demands and changing technology.

1. BASE TELECOMMUNICATIONS INFRASTRUCTURE: Provides funding for base telephone and transmission systems which are used to transfer voice, data, imagery, etc. aboard Marine Corps bases and stations. These systems also provide users access to worldwide information systems such as the Defense Information Systems Network, the Internet, and various commercial systems. The base telecommunications Infrastructure consists of a fiber optic backbone, multiplexers and high speed transmission equipment capable of supporting any foreseeable bandwidth requirements on demand. Telephone systems will use Integrated Switched Digital Network (ISDN) technology to provide integrated and switched voice, video, and data capability. All base host telephone systems will be upgraded to year 2000 compliance under this program.

2. NETWORK INFRASTRUCTURE: The Marine Corps Network Infrastructure program standardizes, upgrades, and replaces key information transfer components located on supporting establishment bases inside support facilities to ensure global connectivity for Marine forces, and support DoD-sponsored and Marine Corps-unique applications. This program focuses on providing local area network (LAN) hardware, software, and internal wiring for buildings on Marine Corps bases. Network infrastructure components include data communication hubs, routers, switches, premise structured wiring, network



<b>Exhibit P-40, Budget Item Justification Sheet</b>		Date:	February 2000
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 031		COMM/ELEC INFRASTRUCTURE (P44448)	
<p>management tools, remote connectivity software, office automation software, and operating systems software. The Defense Mega-Center (DMC) St. Louis will provide legacy mainframe application system support for the foreseeable future.</p> <p>3. ASSET TRACKING LOGISTICS AND SUPPLY SYSTEM (ATLASS): ATLASS involves the migration of Marine Corps intermediate and consumer level supply and maintenance from a mainframe into in a personal computer application using a networked client-server environment. ATLASS Phase II+ consolidates the total force intermediate and consumer level supply and maintenance information management functions into a single material management system. ATLASS Phase II+ is a client-server based supply maintenance and material readiness AIS that is readily deployable. ATLASS Phase II+ supports any size deployment and retains flexibility to exploit existing commercial and government off-the-shelf software. This system is compliant with MAGTF C4I concept, GCCS COE, and published DOD standards for open systems architecture.</p> <p>4. MAGTF LOGISTICS INFRASTRUCTURE: A family of microcomputers that provide the operating forces the necessary tools to support both deliberate and crisis action situations from initiation and mobilization/deployment through employment in an area of responsibility. MAGTF LOG AIS provides core deployment planning and execution capability. It supports Joint Service efforts (TCAIMS and MDSSII are Joint Migration Systems). It is the key contributor to USMC Total Asset Visibility (barcode and radio frequency technology). Provides key elements of GCCS functionality (MAGTF II feeds into JOPES).</p> <p>5. TACTICAL SYSTEM SUPPORT EQUIPMENT (TSSE): Required equipment and support for the Marine Corps Tactical System Support Activity's effort on Life Cycle Software (LCSS) for tactical systems. Investment items are essential to form the basis of software support for the Marine Corps tactical data systems that are fielded.</p> <p>6. OPTICAL DIGITAL IMAGING (ODI-RMS): Provides the Marine Corps the ability to process, store and retrieve Official Military Personnel Files for all active and reserve Marines in an Optical Digital Imaging (ODI) format. The use of this advanced technology will reduce the current goal of maintaining these records, virtually eliminate their loss and provide multiple users simultaneous access.</p> <p>7. MARFORCND: MARFORCND stands for Marine Forces Computer Network Defense. This is the Marine Corps' part of the Joint Task Force Computer Network Defense, which is comprised of all the Military Services. The MARFORCND's responsibility is to guard against attacks on the Marine Corps' Enterprise Network (MCEN), by any external or internal agent or agency. It is comprised of all of the "G" sections (i.e., G-1 Admin, G-2 Intelligence, through G-8,</p>			

<b>Exhibit P-40, Budget Item Justification Sheet</b>		Date: <div style="text-align: right;">February 2000</div>
Appropriation / Budget Activity/Serial No: <div style="text-align: center;">Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 031</div>	P-1 Item Nomenclature: <div style="text-align: center;">COMM/ELEC INFRASTRUCTURE (P44448)</div>	

plus augmented by a lawyer and NIS). Any virus attack on the network, any probing of the network, any monitoring of the network, any legal or investigative requirements are handled by this section of the MCEN, which we oversee at the NOC.

8. PUBLIC KEY INFRASTRUCTURE(PKI): Public Key Infrastructure is a framework of laws, policy, procedures and technologies for the use of digital credentials, which provide confidentiality, integrity, authenticity, and non-repudiation in electronic communications and transactions. PKI allows secure access to IT systems. The ability to electronically sign documents, encrypt messages and documents, and to authenticate and protect Web access.

9. SMART CARD: Smart Card technology program is a technology insertion program that includes software application development, business process re-engineering, smart cards, computer hardware and telecommunications infrastructure. Identical in size and feel to credit cards, smart cards store information on an integrated microprocessor chip located within the body of the card. These chips hold a variety of information, from stored (monetary)-value used for financial transactions, to secure information and applications for higher-end operations such as medical and personnel records. Smart cards may also contain a magnetic stripe and a standard bar code. Smart Card Technology has applicability across multiple functional areas: operations, readiness, quality of life, security (physical and logical), logistics, finance, and personnel.

\*\*\*Note: Starting in FY00 procurement of all computer workstations and servers are centrally procured under BLI 463000 (CCR). The following amounts are for this project:

	FY00	FY01	FY02	FY03	FY04	FY05
	QTY/\$	QTY/\$	QTY/\$	QTY/\$	QTY/\$	QTY/\$
ATLASS						
Workstations	1208/6.150	640/3.279				
Servers	148/8.628	91/5.209				

<b>Exhibit P-40, Budget Item Justification Sheet</b>				Date: <div style="text-align: right;">February 2000</div>	
Appropriation / Budget Activity/Serial No: <div style="text-align: center;">Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 031</div>				P-1 Item Nomenclature: <div style="text-align: center;">COMM/ELEC INFRASTRUCTURE (P44448)</div>	
<div style="margin-bottom: 10px;">Tactical System Support Equip (TSSE)</div> <div style="margin-bottom: 10px;"> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>Workstations</div> <div>8/0.031</div> <div></div> <div></div> <div></div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>Servers</div> <div>8/0.162</div> <div></div> <div></div> <div></div> </div> </div> <div style="margin-bottom: 10px;">Manpower AIS</div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>Workstations</div> <div>56/0.140</div> <div>76/0.190</div> <div>76/0.190</div> <div>76/0.190</div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>Servers</div> <div>2/0.112</div> <div>1/0.056</div> <div></div> <div></div> </div> <div style="margin-bottom: 10px;">DPRIS</div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>Workstations</div> <div></div> <div>70/0.273</div> <div></div> <div></div> </div> <div style="margin-bottom: 10px;">MARFOR-CND</div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>Workstations</div> <div>32/0.221</div> <div></div> <div></div> <div></div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>Servers</div> <div>73/1.479</div> <div></div> <div></div> <div></div> </div> <div style="margin-bottom: 10px;">MAGTF LOG AIS</div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>Workstations</div> <div>260/0.651</div> <div></div> <div></div> <div></div> </div>					

Exhibit P-5, Weapon WPN SYST Cost Analysis			Appropriation/ Budget Activity/Serial No: ( ) / Communications and Electronic Equipment (4) / X37			P-1 Line Item Nomenclature: COMM/ELEC INFRASTRUCTURE (P44448)			Weapon System Type:			Date: February 2000	
Weapon Svstem Cost Elements	ID CD	FY 99			FY 00			FY 01					
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost			
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
BASE TELECOM INFRASTRUCTURE					64813			42704			16052		
NETWORK INFRASTRUCTURE					30227			70013			54072		
ATLASS					12584			3462			6394		
MAGTF LOG AIS					6391						1047		
TACTICAL SYSTEM SUPPORT EQUIP								827					
DPRIS-ODI-RMS								775					
MARFORCND								671					
PUBLIC KEY INFRASTRUCTURE (PKI)											2957		
SMARTCARD											42		
KOSOVA SUPPLEMENTAL					231								
<b>TOTAL</b>					<b>114246</b>			<b>118452</b>			<b>80564</b>		
<b>Active</b>					<b>114246</b>			<b>118452</b>			<b>80564</b>		
<b>Reserve</b>													

Exhibit P-5a, Budget Procurement History and Planning									Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 031				Weapon System Type:		P-1 Line Item Nomenclature: COMM/ELEC INFRASTRUCTURE (P44448)				
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
BASE TELECOM INFRASTRUCTURE										
FY99										
ALBANY TELES&WITCH OUTSIDE CABLE PNT UPGRADE	CTE CHANTILLY VA	C/FFP	ARMY OSCAR	Jun-99	Sep-99	VAR	14200	YES	N/A	
29PLMS TELE&OUTSIDE CABLE PLANT UPGRADE	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	Jun-99	Sep-99	VAR	7500	YES	N/A	
QUANTICO TELE&WITCH OUTSIDE CABLE PNT UPGRADE	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	Jun-99	Sep-99	VAR	14400	YES	N/A	
BARSTOW SWITCH&OUTSIDE PLANT UPGRADE	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	May-99	Sep-99	VAR	10860	YES	N/A	
ENGINEER SUPPORT	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	May-99	Sep-99	VAR	1000	YES	N/A	
PROGRAM SUPPORT	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	May-99	Sep-99	VAR	525	YES	N/A	
FY00										
PARRIS ISLAND OUTSIDE PLANT UPGRADE	CTE CHANTILLY VA	C/FFP	ARMY OSCAR	Jan-00	Apr-00	VAR	1830	YES	N/A	
HAWAII OUTSIDE CABLE UPGRADE	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	Jan-00	Apr-00	VAR	7046	YES	N/A	
MCRD SAN DIEGO TEL OUTSIDE PT UPGRADE	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	Jan-00	Apr-00	VAR	2250	YES	N/A	
YUMA OUTSIDE PLANT UPGRADE	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	Jan-00	Apr-00	VAR	4940	YES	N/A	
BUTLER JAPAN OUTSIDE PLANT UPGRADE	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	Jan-00	Apr-00	VAR	24704	YES	N/A	
QUANTICO OUTSIDE PLANT UPGRADE	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	Jan-00	Apr-00	VAR	1934	YES	N/A	
FY01										
QUANTICO OUTSIDE PLANT UPGRADE	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	Jan-01	Apr-01	VAR	6266	YES	N/A	
FUJI JAPAN TELEPHONE&OUTSIDE PLANT	CTE CHANTILLY VA	C/FFP/O	ARMY OSCAR	Jan-01	Apr-01	VAR	9786	YES	N/A	
REMARKS:										

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 031				Weapon System Type:			P-1 Line Item Nomenclature: COMM/ELEC INFRASTRUCTURE (P44448)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date	
NETWORK INFRASTRUCTURE FY99	VARIOUS	C/FFP	SYSCOM/GSA	Jan-99	Apr-99	VAR	VAR	YES	N/A		
FY00	VARIOUS	C/FFP	SYSCOM/GSA	Apr-00	Jun-00	VAR	VAR	YES	NA		
FY01	VARIOUS	C/FFP	SYSCOM/GSA	Apr-01	Jun-01	VAR	VAR	YES	NA		
REMARKS:											

<b>Exhibit P-40, Budget Item Justification Sheet</b>								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 035								P-1 Item Nomenclature: MODIFICATION KITS MAGTF C4I (P44623)				
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	PRIOR YEAR			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	78.1			33.1	18.5	7.5	38.1	51.3	26.3	11.7	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	78.1			33.1	18.5	7.5	38.1	51.3	26.3	11.7	Cont	Cont
Initial Spares	0.1			7.7	0.8							8.6
Total Proc Cost	78.2			40.8	19.3	7.5	38.1	51.3	26.3	11.7	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
<p>Modifications budgeted under this line are for the purpose of correcting equipment deficiencies noted after new items are fielded or to increase operational capabilities of non-telecommunication end items previously fielded.</p> <p>The COMSEC Cable line is in support of various security systems being fielded including the KY-99 MINTERM, the Electronic Key Management System, the Data Transfer Device, and the STU-III. COMSEC cables will interface with various communication devices to include radios, switches, and computers and will provide secure transmissions at all times.</p> <p>The AN/TPS-59 funding profile includes radar modifications which improve mean time between failure rates and enhanced performance characteristics. The TPS-59 radar upgrade provides three dimensional long range surveillance and detection against air breathing targets and tactical ballistic missiles. It provides launch/impact point and cueing information to other theater missile defense systems.</p>												

**Exhibit P-40, Budget Item Justification Sheet**

Date:

February 2000

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 035

P-1 Item Nomenclature:

MODIFICATION KITS MAGTF C4I (P44623)

The MEWSS PIP is an Electronic Warfare (EW) suite of equipment configured in the highly mobile, survivable Light Armored Vehicle. The MEWSS-PIP is an evolutionary acquisition program that incorporates a rigorous P3I strategy. This program develops a material change for the current, outdated EW suite. Threat tactical communications have advanced to complex modulations requiring computer intensive, open architecture solutions. MEWSS-PIP fulfills the requirement to provide responsive EW support to maneuver commanders by enhancing the ability to defeat the enemy by isolating and suppressing opposing fire control and nets at a critical point in the battle. MEWSS-PIP will provide detection, location and demodulation of advanced tactical communications.

The Direct Air Support Central (DASC) Product Improvement Program (PIP) is a non-developmental effort which will incorporate selected automation and existing hardware from the AN/TSQ-155(V), Improved Direct Air Support Central (IDASC), and the OE-334 Antenna Coupler Group into lightweight, highly mobile shelters. Improved capabilities include automated interfaces to the Digital Communications Terminal (DCT), Advanced Tactical Air Command Central (ATACC), Position Location Reporting System (PLRS), Advanced Field Artillery Tactical Data System (AFATDS), and Tactical Combat Operations (TCO).

The MRC-142 is an Ultra-High Frequency (UHF) Digital Wideband Transmission System Radio Terminal Set used at the Marine Expeditionary Force, Division, Wing, and Force Service Support Group. It provides medium range, medium capacity, multi-channel trunking required by deployed forces to interconnect the Unit Level Circuit Switch (ULCS). The system is capable of providing up to two separate UHF radio paths in the 1350-1950 MHZ range, using line-of-sight for distances up to 35 miles, for interconnection of digital trunk groups at 144, 288, or 576 Kbps over a maximum of 36 channels. The pre-planned product improvement (PIP) for an uninterrupted power source (UPS) will enable the MRC-142 to maintain reliable communication in the event of external or vehicular power failure. With the Marine Corps moving into the digital battlefield arena, the digital information carried by the MRC-142 will affect more than just this system (depending on the location of the MRC-142, an entire network of operations may be affected).

**MOD****INSTALLATION AGENT****INSTALLATION**

COMSEC CABLES

FIELD

BEGIN JAN 97/END SEP 06

AN/TPS-59 RADAR MOD (97)

FIELD

BEGIN SEP 98/END AUG 99

MEWSS-PIP

LMFEDERAL SYS, OWEGO, NY

BEGIN DEC97/END DEC 05

IDASC PIP

NAWC, Crane, IN

BEGIN MAY 97/END JUN 99

AN/MRC-142

FIELD

BEGIN AUG99/END AUG 00



[illegible]

WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 035			P-1 Line Item Nomenclature: MODIFICATION KITS MAGTF C4I (P44623)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
COMSEC CABLES					839			955			992		
AN/TPS-59 ECP'S					7687			1306			1078		
AN/TPS-59								1059					
DASC					3502								
MEWSS: SENSOR COSTS (INVESTMENT ITEM)					7460								
MEWSS: INSTALLATION					6211						2279		
MEWSS: PRODUCTION ENGR/ECP					3970			6264			1600		
MEWSS: TRAINING/ILS					3412			1600			985		
MEWSS: TRAVEL								50			75		
<b>SUBTOTAL</b>					<b>21053</b>			<b>7914</b>			<b>4939</b>		
AN/MRC-142: (UPS)								1551	486	3191			
AN/MRC-142: INSTALLATION KITS								60					
AN/MRC-142: TRAVEL					23			29					
AN/MRC-142: INTEGRATED LOG SUPPORT								145					
AN/MRC-142: TRAINING								462					
AN/MRC-142: SMAK								4695	18	260833			
AN/MRC-142: INSTALLATION KITS								90					
AN/MRC-142: TRAVEL					24			30					
AN/MRC-142: INTEGRATED LOG SUPPORT								153					
AN/MRC-142: TRAINING								90			475		
<b>SUBTOTAL</b>					<b>47</b>			<b>7305</b>			<b>475</b>		
<b>TOTAL</b>					<b>33128</b>			<b>18539</b>			<b>7484</b>		
<b>Active</b>					<b>32930</b>			<b>18149</b>			<b>7086</b>		
<b>Reserve</b>					<b>198</b>			<b>390</b>			<b>398</b>		
Note: Forward financed \$274K in FY00 for AN/TPS-59.													
Reserve													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) / 035				Weapon System Type:			P-1 Line Item Nomenclature: MODIFICATION KITS MAGTF C4I (P44623)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date	
AN/MRC-142: (UPS) FY 00	TBD	FFP	QUANTICO VA	Mar-00	Aug-00	486	3191	Yes	No		
AN/MRC-142: SMAK FY 00	TBD	FFP	QUANTICO VA	Mar-00	Aug-00	18	260833	Yes	No		
REMARKS:											

INDIVIDUAL MODIFICATION														Date		February 2000					
MODIFICATION TITLE: AN/MLQ-36A (MEWSS) 3																					
MODELS OF SYSTEMS AFFECTED MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM (AN/MLQ-36) PIP																					
DESCRIPTION / JUSTIFICATION:  The MEWSS PIP is an Electronic Warfare (EW) suite of equipment configured in the highly mobile, survivable Light Armored Vehicle. The MEWSS-PIP is an evolutionary acquisition program that incorporates a rigorous P3I strategy. This program develops a material change for the current, outdated EW suite. Threat tactical communications have advanced to complex modulations requiring computer intensive, open architecture solutions. MEWSS fulfills the requirement to provide responsive EW support to maneuver commanders by enhancing the ability to defeat the enemy by isolating and suppressing opposing fire control and nets at a critical point in the battle. MEWSS will provide detection, location and demodulation of advanced tactical communications.																					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE: PHASE II-ENGINEERING DEVELOP MODEL (EDM) 4TH QTR FY97 ENGINEERING AND MANUFACTURING DEVELOPMENT/LOW RATE INITIAL PRODUCTION MSII A-LOW RATE INITIAL PRODUCTION (LRIP) 1ST QTR FY97 PHASE I OPERATIONAL TESTING 4TH QTR FY98 PHASE II PRODUCTION ECP ACTIVITY FY99 ELECTRONIC ATTACK INTEGRATION FY99 OPERATIONAL TESTING 3RD QTR/ QTY OF 100 1ST QTR FY02.																					
Installation Schedule:																					
	Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	2				1								4				4				1
Outputs	2				1											4					4
		FY 2004				FY 2005				FY 2006				FY 2007				To	Totals		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete			
Inputs																			12		
Outputs				1															12		
METHOD OF IMPLEMENTATION: CONTRACTOR ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 10 Months																					
Contract Dates: FY 1999 JUL 99 FY2000 N/A FY 2001 JUL 01																					
Delivery Date: FY 1999 JUL 00 FY2000 N/A FY 2001 APR 02																					

INDIVIDUAL MODIFICATION																	Date	February 2000		
MODIFICATION TITLE (Cont):			AN/MLQ-36A (MEWSS) 3																	
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Inst Kits, Nonrecurring	2	12.089	1	4.000			4	2.279	4	2.610	1	1.980							12	22.958
Equipment, Nonrecurring																				
ECO		0.800		5.168		6.264		1.600		2.150		2.100		0.700						18.782
Other		1.540		5.095		1.650		1.060		3.884		4.067		1.473						18.769
Installation of Hardware																				
FY 1998 & Prior Eqpt 3 Kits	2	10.991																	2	10.991
FY 1999 Eqpt 1 Kits			1	6.790															1	6.790
FY 2000 Eqpt 0 Kits																				
FY 2001 Eqpt 4 Kits									4	24.650									4	24.650
FY 2002 Eqpt 4 Kits											4	24.635							4	24.635
FY 2003 Eqpt 1 kits													1	5.309					1	5.309
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
(FY(TC) Eqpt (xx kits)																				
Installment Cost		10.991		6.790						24.650		24.635		5.309					12	72.375
Total Procurement Cost		25.420		21.053		7.914		4.939		33.294		32.782		7.482						132.884

INDIVIDUAL MODIFICATION														Date		February 2000					
MODIFICATION TITLE: AN/MRC 142 PIP (UPS) 2																					
MODELS OF SYSTEMS AFFECTED: MRC-142 PRE PLANNED PRODUCT IMPROVEMENT (PIP)																					
DESCRIPTION / JUSTIFICATION:  THIS PRE-PLANNED PRODUCT IMPROVEMENT (PIP) FOR AN UNINTERRUPTED POWER SOURCE (UPS) WILL ENABLE THE MRC-142 TO MAINTAIN RELIABLE COMMUNICATION IN THE EVENT OF EXTERNAL OR VEHICULAR POWER FAILURE. WITH THE MARINE CORPS MOVING INTO THE DIGITAL BATTLEFIELD ARENA, THE DIGITAL INFORMATION CARRIED BY THE MRC-142 WILL AFFECT MORE THAN JUST THE MRC-142. (DEPENDING ON THE LOCATION OF THE MRC-142 AN ENTIRE NEWTORK OF OPERATIONS MAY BE AFFECTED.)																					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE N/A.  THIS ASSET WILL BRING MARINE EXPEDITIONARY UNIT (MEU) COMMANDERS A VERSATILE SHIP/SHORE CAPABILITY. THE NAVY IS REMOVING ALL AN/VCC-2'S (PREDECESSOR TO THE DWTS) IN PREPARATION FOR ARRIVAL OF THE NEW DWTS. THIS ACTION TAKES AWAY A MARINE COMMUNICATION ASSET.																					
Installation Schedule:																					
	Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs									486												
Outputs									486												
		FY 2004				FY 2005				FY 2006				FY 2007				To	Totals		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete			
Inputs																			486		
Outputs																			486		
METHOD OF IMPLEMENTATION: Field Installed      ADMINISTRATIVE LEADTIME: 5 Months      PRODUCTION LEADTIME: 5 Months																					
Contract Dates:      FY 1999      N/A      FY 1999      JAN 99      FY 2000      MAR 00																					
Delivery Date:      FY 1999      N/A      FY 1999      AUG 99      FY 2000      AUG 00																					

INDIVIDUAL MODIFICATION																	Date	February 2000		
MODIFICATION TITLE (Cont):			AN/MRC 142 PIP 2 (UPS)																	
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT					486	01.551													486	01.551
Kit Quantity																				
Inst Kits, Nonrecurring						0.060														0.060
Equipment, Nonrecurring																				
ECO																				
Other																				
TRAINING SUPPORT						0.462														0.462
ILS						0.145														0.145
TRAVEL				0.023		0.029														0.029
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
(FY(TC) Eqpt (xx kits)																				
Installment Cost																				
Total Procurement Cost				0.023		2.247														2.270

INDIVIDUAL MODIFICATION																Date		February 2000			
MODIFICATION TITLE: AN/MRC-142 SHORE MOUNT ACCESSORY KIT (SMAK)																					
MODELS OF SYSTEMS AFFECTED: MRC-142 SHORE MOUNT ACCESSORY KIT (SMAK)																					
DESCRIPTION / JUSTIFICATION:  THE AN/MRC-142 SHORE MOUNT ACCESSORY KIT (SMAK) CONSISTS OF TWO ANTENNA'S, ANTENNA MASTS, POWER AMPLIFIER AN FCC-100, AND ASSOCIATED CABLES & MOUNTING HARDWARE. THE SMAK IS REQUIRED TO ESTABLISH A SHIP-SHORE DIGITAL WIDEBAND TRANSMISSION LINK.																					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																					
Installation Schedule:																					
	Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs									18												
Outputs									18												
		FY 2004				FY 2005				FY 2006				FY 2007				To	Totals		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete			
Inputs																			18		
Outputs																			18		
METHOD OF IMPLEMENTATION: Field Installed      ADMINISTRATIVE LEADTIME: 3 Months      PRODUCTION LEADTIME: 7 Months																					
Contract Dates:      FY 1999      N/A      FY 1999      N/A      FY 2000      MAR 00																					
Delivery Date:      FY 1999      N/A      FY 1999      N/A      FY 2000      AUG 00																					



INDIVIDUAL MODIFICATION																	Date	February 2000		
MODIFICATION TITLE (Cont): AN/MRC-142 SHORE MOUNT ACCESSORY KIT (SMAK)																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity					18	0.090													18	0.090
Inst Kits, Nonrecurring						4.695														4.695
Equipment, Nonrecurring																				
ECO																				
Other																				
TRAINING SUPPORT						0.090		0.475												0.565
INTEGRATED LOG SPT						0.153														0.153
TRAVEL				0.024		0.030														0.054
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
(FY(TC) Eqpt (xx kits)																				
Installment Cost																				
Total Procurement Cost				0.024		5.058		0.475												5.557

# **Exhibit P-40, Budget Item Justification Sheet**

Date:

February 2000

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)

P-1 Item Nomenclature:

AIR OPERATIONS C2 SYSTEMS (P44447)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	22.0			7.8	4.1	3.2	14.3	39.2	87.3	100.0	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	22.0			7.8	4.1	3.2	14.3	39.2	87.3	100.0	Cont	Cont
Initial Spares	0.6			0.1	1.2	0.5						
Total Proc Cost	22.6			7.9	5.3	3.7	14.3	39.2	87.3	100.0	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												

Air OperationsC2 coordinates and plans Navy and Marine air combat operations and interfaces with joint and combined forces air operations. It also interfaces with fire support C2. The systems in this line are used to detect aircraft and missiles, process the detected information, deliver the processed information to the Advanced Tactical Air Command Central (ATACC), and conduct the air battle.

This is the rolled line consisting of the following:

TAOM - Tactical Air Operations Module - An electronic tactical data system which, when supported with sensors, power sources, support equipment, and personnel, provides the Marine Corps with the capability of integrating air defense, supplemental enroute traffic control management, and data link to external agencies for real time exchange of tactical air date.

TBMCS - Theater Battle Management Core System (formerly CTAPS) - An evolutionary acquisition, allowing for the rapid development/fielding of hardware and software to meet todays rapidly advancing technology.

CAC2S - Common Aviation Command and Control System - Provide a complete and coordinated modernization effort for the equipment of the Marine Air Command and Control System (MACCS) to support its employment in an Operational Maneuver From The Sea (OMFTS) environment.

CEC - Cooperative Engagement Capability - Enables all ECE-equipped, Anti-Air Warfare (AAW) weapons systems in a battle force to operate as a single distributed AAW weapon system. This is accomplished providing timely sharing of fire control quality sensor data, correlated identification data and AAW weapons system management status via a Data Distribution System (DDS).

CID - Combat Identification - Provide the ability to distinguish friends, foes, and neutrals on the battlefield through the use of situation awareness and target identification.

Date:	February 2000
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February 2000

Appropriation / Budget Activity	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total
<b>Capital Outlay</b>													
<b>Construction</b>													
General Building	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$12,000,000
Roadway	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$6,000,000
Other Construction	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$2,400,000
Total Construction	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$20,400,000
<b>Equipment</b>													
Police Department	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,200,000
Fire Department	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,200,000
Public Works	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,200,000
Other Departments	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,200,000
Total Equipment	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$4,800,000
<b>Information Technology</b>													
Hardware	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$600,000
Software	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$600,000
Services	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$600,000
Total Information Technology	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$1,800,000
<b>Other Capital Outlay</b>													
Land Acquisition	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,200,000
Total Other Capital Outlay	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,200,000
<b>Total Capital Outlay</b>	\$2,250,000	\$2,250,000	\$2,250,000	\$2,250,000	\$2,250,000	\$2,250,000	\$2,250,000	\$2,250,000	\$2,250,000	\$2,250,000	\$2,250,000	\$2,250,000	\$27,400,000
<b>Operating Expenses</b>													
<b>Personnel</b>													
Police Department	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$12,000,000
Fire Department	\$1,000,000	\$1,000,000	\$1,000,0										

P-1 Item Nomenclature:

Procurement, Marine Corps (1109) / Communications and Electronic Equipment

AIR OPERATIONS C2 SYSTEMS (P44447)

[illegible]

Exhibit P-40, Budget Item Justification Sheet								Date: February 2000				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109)/ Communications and Electronic Equipment (4)						P-1 Item Nomenclature: MAGTF CSSE & SE (P44666)						
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost					8.2	14.7	7.2	7.1	4.3	4.8	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				0.0	8.2	14.7	7.2	7.1	4.3	4.8	Cont	Cont
Initial Spares												
Total Proc Cost					8.2	14.7	7.2	7.1	4.3	4.8	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
<p>The MAGTF Combat Service Support Element &amp; Supporting Establishment (CSSE &amp; SE) consist of mutually supporting Logistics Information Technology (IT) programs that support force deployment, planning, and execution; sustainment and distribution; and contribute to the CINC's Common Operating Picture (COP) to support rapid, accurate decision making.</p> <p>This is a rolled line consisting of:</p> <p>Atlass PIP - The capability represents a deployable capability that will be used in the tactical deployed areas of the Marine Corps, as well well as in garrison. The ATLASS PIP program funds the improvement of the fielded ATLASS II+ system as well as the migration of base and station (non-deployable) USMC intermediate and consumer level supply and maintenance systems from a mainframe environment into a personal computer application using a networked client server architecture.</p> <p>TC-AIMS II - A joint migration force deployment and transportation system. It will be used by Command Elements, Traffic Management Offices, and all Operating Force deploying units to automate the processes of planning, organizing, coordinating, and controlling deployment, redeployment, and sustainment activities worldwide, in peace as well as during contingencies.</p> <p>Total Force Structure Management System (TFSMS) A system that replaces four (4) existing systems: Table of Manpower Requirements (T/MR), Logistics Management Information System (LMIS), Trooplist System, and Manning Level Process (MLP) system. The result will be a consolidated management of Tables of Organization (T/O) and Tables of Equipment (T/E) via a single system, allowing coordination of manpower and materiel solutions in a requirement base Marine Corps.</p> <p>Automated Identification Technology (AIT) - A generic name given to devices used to automate data collection in a variety of applicaztion, with the goal of providing cost saving by expediting the collection of accurate data.</p> <p>MAGTF Logistics AIS Infrastructure - A family of coordinated, mutually supporting, automated systems designated to support deliberate and crisis action/time-sensitive planning, deployment, employment, and redeployment of a MAGTF in independent, joint, and/or combined operations.</p> <p>Manpower Automated Information System - Provides funding for the automated data processing to support users of Manpower systems being reengineered into a client-server environment.</p> <p>Data Warehousing - Decision support tools integrate with the data warehousing products to provide essential logistics information for commanders to make critical decisions.</p>												

Date:	February 2000
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February 2000

P-1 Item Nomenclature:

MAGTF CSSE &amp; SE (P44666)

[illegible]

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: ( ) / Communications and Electronic Equipment (4) / X37			P-1 Line Item Nomenclature: MAGTF CSSE & SE (P44666)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD				FY99			FY00			FY01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
ATLASS PIP								4486			10072		
TC AIMS II								2086			2234		
MAGTF LOG AIS													
TOTAL FORCE STRUCTURE MANAGEMENT													
MANPOWER AIS								195			195		
DATA WAREHOUSING											239		
AUTOMATED INFORMATION TECHNOLOGY (AIT)								1460			1926		
<b>TOTAL</b>								<b>8227</b>			<b>14666</b>		
<b>ACTIVE</b>								<b>7537</b>			<b>13363</b>		
<b>RESERVE</b>								<b>690</b>			<b>1303</b>		

# Exhibit P-40, Budget Item Justification Sheet

Date:

February 2000

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109)/ Communications and Electronic Equipment (4)

P-1 Item Nomenclature:

TC-AIMS II

Program Elements for Code B Items:

Code:

A

Other Related Program Elements:

	Prior Years		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost					4.5	10.1						14.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					4.5	10.1						14.7
Initial Spares												
Total Proc Cost					4.5	10.1						14.7
Flyaway U/C												
Wpn Sys Proc U/C												

TC-AIMSII is a Joint (ACAT IA(M)) transportation and deployment Automated Information System (AIS) supporting the DoD mission areas of deployment and sustainment. It will be integrated within the Marine Corps Enterprise Network (MCEN) and supports deployed operations over the Tactical Data Network (TDN). TC-AIMS II has a distributed database, enterprise level information architecture. It's hardware components consist of MCHS enterprise level servers at the major MCEN regions; departmental level servers at Major Subordinate Commands; PC workstations, deployable laptops, and DoD AIT devices (bar-code, SMART card, and Optical Character Memory card readers). TC-AIMS II is used from Command Element (Strategic Mobility Officers), base/station Traffic Management Offices (TMO's), and to all Operating Force units to Battalion & Squadrons. It is used to automate the processes of planning, organizing, coordinating, and controlling deployment, redeployment, and sustainment activities worldwide, in peace as well as wartime/contingency operations. It interfaces with load planning, mode clearance, C2, supply, personnel, and TPFDD feeder systems. It provides a modernized, scaleable, integrated and deployable AIS capability that supports reengineered deployment and business processes throughout DoD and the joint community. It is the key enabler towards Force Deployment Planning and Execution (FDP&E) capability at the unit level. TC-AIMS II is the system of origin for In-Transit-Visibility (ITV) data, which provides CINCs, JTF's and Components critical visibility of personnel, equipment and supplies in the transportation pipeline. TC-AIMSII links all DoD component unit movement and traffic management functionality into a single information system capability.

Within the Marine Corps, TC-AIMSII is planned to be regionalized at the enterprise level upon the MCEN. It will be fielded from the MARFOR level to the battalion & squadron level (including truck and transportation support companies) throughout the operating forces and MARFORRES. It will also be implemented at all bases, camp, and station TMO offices, and to CCO's aboard Navy amphibious ships. Systems will be deployed at eight major regional locations, to 368 sites, and to over 1700 end-users throughout the Marine Corps.

\*\*\*Note: Starting in FY00 procurement of all computer workstations and servers are centrally procured under BLI 463000 (CCR). The following amounts are for this project:

	FY00	FY01
Quantity/\$M of Workstations	923/4.075	383/1.152
Quantity/\$M of Servers	54/1.083	27/0.554

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: ( ) / Communications and Electronic Equipment (4) / X37			P-1 Line Item Nomenclature: TC-AIMS II			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY99			FY00			FY01					
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AIT Devices (Bar-code readers/printers, RF Tags								926			1549		
Transit Cases, Peripheral equip, site								499			586		
Pm Support Implementation & Fielding								1848			5357		
PM Support , CLS								294			328		
Initial Factory Training								341			677		
Fielding Surcharge (Joint Tng Teams								320			550		
Integration & Assembly SPAWAR								258			1025		
<b>TOTAL</b>								<b>4486</b>			<b>10072</b>		
<b>ACTIVE</b>								<b>3796</b>			<b>9369</b>		
<b>RESERVE</b>								<b>690</b>			<b>703</b>		



Exhibit P-40, Budget Item Justification Sheet							Date: February 2000				
Appropriation / Budget Activity/Serial No: ( ) / Communications and Electronic Equipment (4) / X37				P-1 Item Nomenclature: FIRE SUPPORT SYSTEMS (P41400)							
Program Elements for Code B Items: 473300			Code: A	Other Related Program Elements:							
	Prior Years		FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty											
Gross Cost				5.0	12.3	17.5	17.4	19.0			71.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)			0.0	5.0	12.3	17.5	17.4	19.0			71.2
Initial Spares					0.3	0.3	0.6				2.1
Total Proc Cost				5.0	12.6	17.8	18.0	19.0			72.4
Flyaway U/C											
Wpn Sys Proc U/C											
<p><u>Target Location Designation and Hand-Off System (TLDHS)</u>. Man portable, automated equipment suite that provides Forward Observers, Forward Air Controllers, Naval Gunfire Spot teams and Reconnaissance Teams with the ability to accurately acquire, locate and designate targets, then digitally transmit (hand-off) target data to weapons delivery platforms and agencies.</p> <p><u>Shortstop Electronic Protection System (SEPS)</u> - Vehicle transported force protection electronic device that provides defense against specific types of proximity fuzed mortar, cannon and rocket munitions.</p>											

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: ( ) / Communications and Electronic Equipment (4) / X37			P-1 Line Item Nomenclature: FIRE SUPPORT SYSTEMS (P41400)			Weapon System Type:			Date: February 2000		
Weapon Svstem Cost Elements	ID CD	FY 98			FY 99			FY 00 0			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
TLDHS	A										11090	49	226327
Program Support											547		
Special Purpose Test Equipment											6		
ILS											700		
TOTAL											12343		
Active											12343		
Reserve													
SEPS													
Shortstop								2000	10	200000			
HMMWVS								600	10	60000			
Generators								50	10	5000			
Program Support								550					
Initial Spares								200					
ILS Documentation (Tech Data, Cataloging,								900					
IETMS/Training Materials								664					
TOTAL SEPS								4964					

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000	
Appropriation / Budget Activity/Serial No: () / Communications and Electronic Equipment (4) / X37				Weapon System Type:			P-1 Line Item Nomenclature: FIRE SUPPORT SYSTEMS (P41400)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date	
TLDHS FY 01	Litton, Apokee, FL	MY-2	NV/RSTA Ft Belvoir VA	Feb-01	Feb-02	49	226327	No	N/A	N/A	
SEPS FY 00	Condor, Simi Valley, CA	FFP	MARCORSYSCOM, Quantico, VA	Oct-01	Mar-02	10	200000	No	N/A	N/A	
<b>REMARKS:</b> Army is planning a multi-year procurement beginning in FY 01.											

<b>Exhibit P-20, Requirements Study</b>			Appropriation/Budget Activity/Serial No: ( ) / Communications and Electronic				TLDHS		Date: Feb 2000	
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): FIRE SUPPORT SYSTEMS (P41400)			Admin Leadtime (after Oct 1): 4 Months				Prod Leadtime: 12 Months			
Line Descriptions			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	
Buy Summary					49	90	107	124		
Unit Cost					226.0	181.0	151.0	143.0		
Total Cost					11090.0	16280.0	16110.0	17778.0		
Asset Dynamics										
Beginning Asset Position							49	139	246	
Deliveries from: FY 1999 Funding										
Deliveries from: FY 2000 Funding										
Deliveries from: FY 2001 Funding						49				
Deliveries from Subsequent Years Funds							90	107	124	
Other Gains										
Combat Losses										
Training Losses										
Test Losses										
Other Losses										
Disposals/Retirements/Attritions										
End of Year Asset Position						49	139	246	370	
Inventory Objective or Current Authorized Allowance										
Inventory Objective 424	Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement		Aircraft: TOAI	
Assets Rqd for Combat Loads:	thru FY XXXX		thru FY XXXX		thru FY XXXX		FY 2000		PAA: TAI	
WRM Rqmt:	FY XXXX		FY XXXX		FY XXXX		FY 2001		Attrition Res	
Pipeline:	FY XXXX		FY XXXX		FY XXXX		Augment		BAI	
Other:	FY XXXX		FY XXXX		FY XXXX				Inactive Inv	
Total:									Storage	
<b>TLDHS</b>										

<b>Exhibit P-20, Requirements Study</b>				Appropriation/Budget Activity/Serial No: Shortstop Electronic Electronic Protection System				Date: Feb 2000		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): FIRE SUPPORT SYSTEMS (P41400)				Admin Leadtime (after Oct 1): 24 Months				Prod Leadtime: 5 Months		
Line Descriptions				FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Buy Summary					10					
Unit Cost					200.0					
Total Cost					2000.0					
Asset Dynamics										
Beginning Asset Position										
Deliveries from: FY 1999 Funding										
Deliveries from: FY 2000 Funding							10			
Deliveries from: FY 2001 Funding										
Deliveries from Subsequent Years Funds										
Other Gains										
Combat Losses										
Training Losses										
Test Losses										
Other Losses										
Disposals/Retirements/Attritions										
End of Year Asset Position							10			
Inventory Objective or Current Authorized Allowance										
Inventory Objective N/A		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement		Aircraft: TOAI
Assets Rqd for Combat Loads:		thru FY XXXX		thru FY XXXX		thru FY XXXX		FY 2000		PAA: TAI
WRM Rqmt:		FY XXXX		FY XXXX		FY XXXX		FY 2001		Attrition Res
Pipeline:		FY XXXX		FY XXXX		FY XXXX		Augment		BAI
Other:		FY XXXX		FY XXXX		FY XXXX				Inactive Inv
Total:										Storage
<b>SEPS</b>										

